

Parts Manual

Cummins **Onan**

Performance you rely on.™



Commercial Mobile Generator Set

HDCAC (Spec A-D)
HDCAD (Spec A-D)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins/Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Cummins/Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Rating	Wiring Diagram AC/DC	Voltage	Hertz	Phase
10.0HDCAC-42345A/B*	10,000 Watts	611-1256	120/240	60	1
10.0HDCAC-42345C/D*	10,000 Watts	630-2676	120/240	60	1
12HDCAD-2209A*	12,000 Watts	611-1256	120/240	60	1
12HDCAD-2209C/D*	12,000 Watts	630-2676	120/240	60	1

* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

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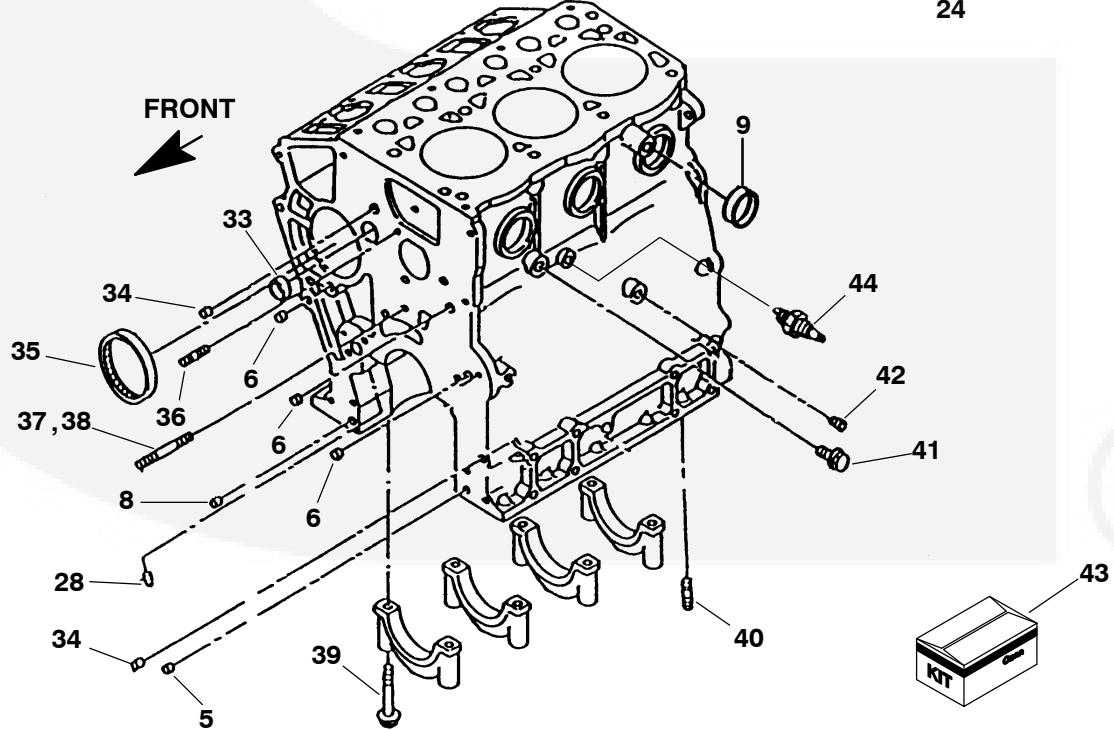
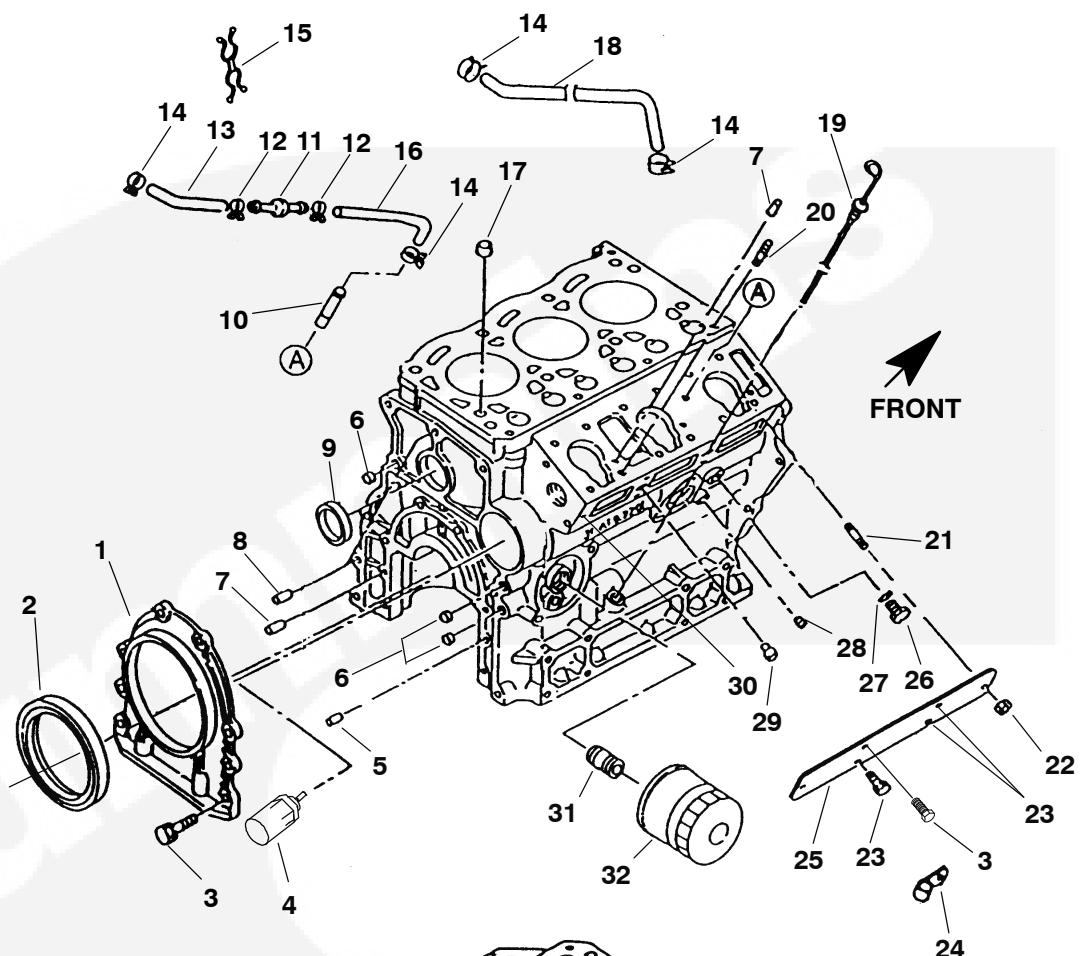
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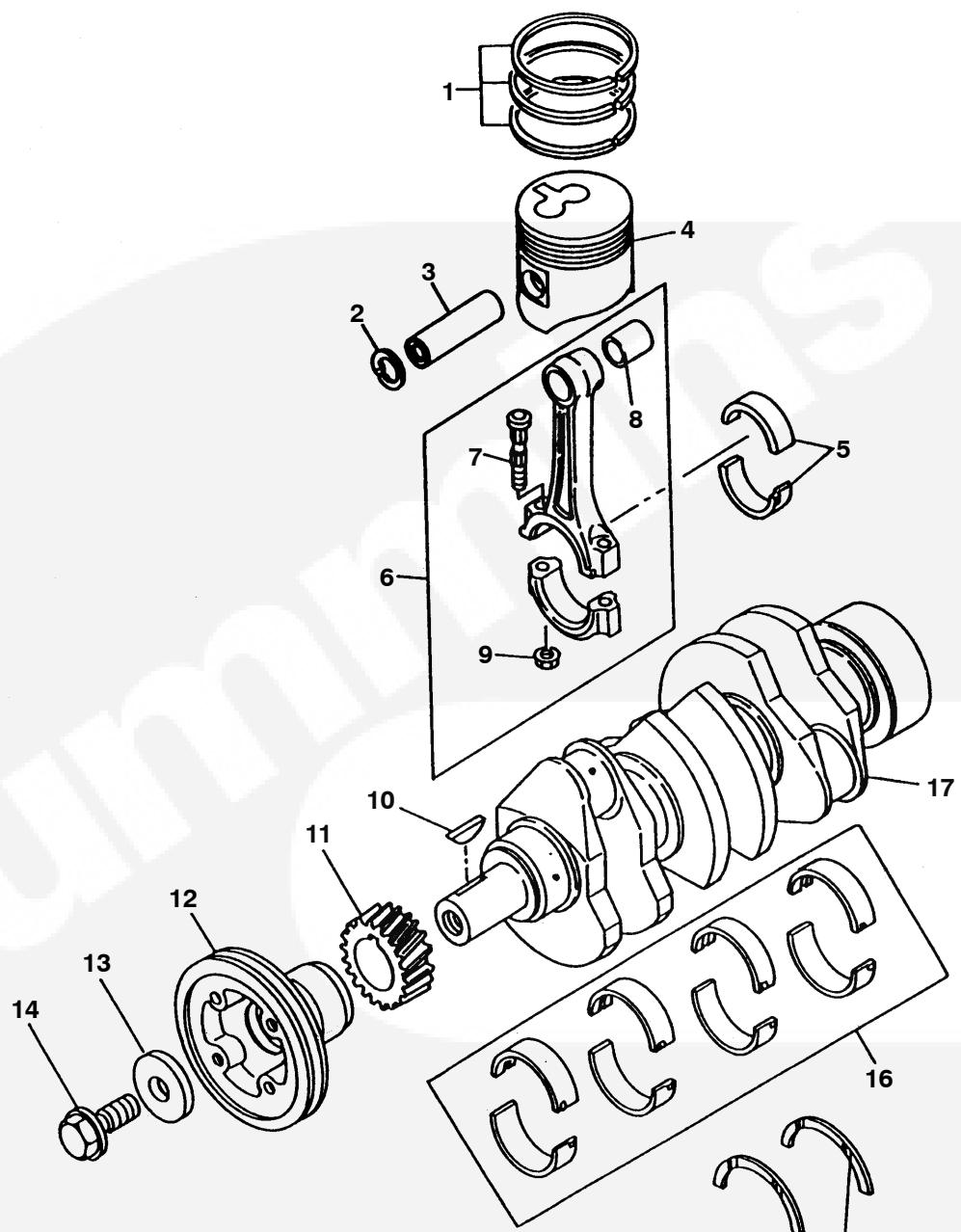
Cylinder Block



Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3709	1	Engine, Replacement	24	187-1331	1	Clip, Fuel Pump Lead Wire
1	187-1196	1	Retainer, Crank Rear	25	187-1287	1	Cover, Injection Pump Housing
2	187-1042	1	Seal, Crank Rear Oil	26	187-1039	1	Plug, Cylinder Block (M14)
3	187-1003	7	Bolt	27	187-1335	1	Gasket, Plug
4	150-2700	1	Actuator (E1)	28	187-1025	2	Plug, Oil Gallery (1/8"PT)
5	187-1341	2	Dowel, Oil Pump	29	187-1190	2	Pin, Control Link
6	187-1038	6	Cup, Sealing (12mm Dia.)	30	187-1143	1	Stud, Injection Pump Housing Cover (19mm Lg)
7	187-1316	5	Pin, Straight	31	187-1140	1	Stud, Oil Filter
8	187-1317	2	Pin, Housing Straight	32	187-1000	1	Filter, Oil
9	187-1286	4	Cup, Sealing (35mm Dia.)	33	187-1023	1	Cup, Sealing (22mm Dia.)
10	187-1198	1	Connector, PCV	34	187-1341	2	Dowel, Timing Case
11	187-1134	1	Valve, Check	35	187-1220	1	Bearing, Cam Center Needle
12	187-1131	2	Clip, Hose	36	187-1310	1	Stud, Water Pump (40mm)
13	187-1278	1	Hose, PCV	37	187-1312	1	Stud, Timing Case (60mm)
14	187-1043	4	Clip, Hose	38	187-1311	1	Stud, Timing Case (50mm)
15	187-1066	1	Clip, Hose	39	187-1115	8	Bolt, Metal Cap
16	187-1277	1	Hose, PCV	40	187-1307	2	Stud, Oil Pan
17	187-1126	2	Dowel, Cylinder Head	41	187-1337	1	Plug, Water Drain (1/4"PT)
18	187-1276	1	Hose, PCV	42	187-1349	1	Plug, Oil Gallery (1/4" PT)
19	187-1290	1	Indicator, Oil Level	43	187-1308	1	Kit, Engine Repair (Top Overhaul)
20	187-1021	6	Stud, Injection Pump (20mm)	44	185-5492	1	Switch, Oil (Replacement Switch)
21	187-1307	1	Stud, Injection Pump Housing Cover (16mm Lg)				
22	187-1018	2	Nut, Cover				
23	187-1002	3	Bolt, Cover				

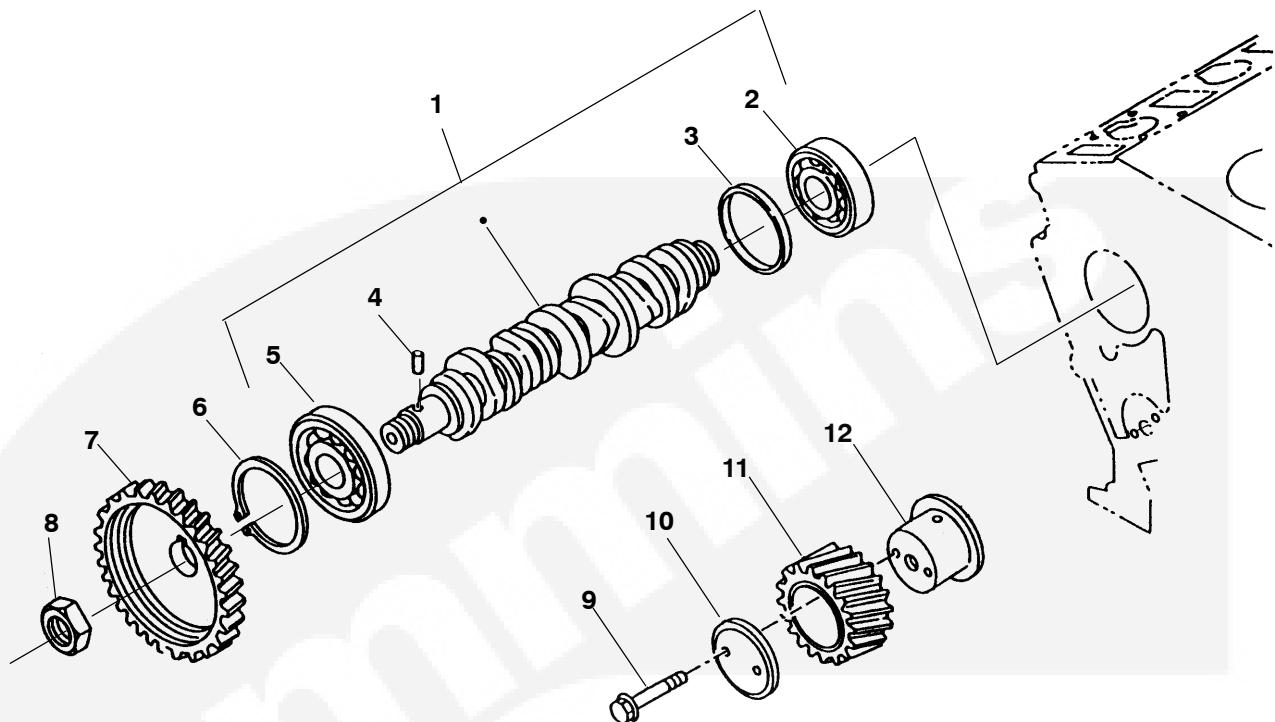
Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Ring Set, Piston	10	187-1127	1	Key, Woodruff
	187-1294	3	Standard	11	187-1163	1	Gear, Crankshaft
	187-1217	3	0.25 Oversized	12	187-1247	1	Pulley, Crankshaft
2	187-1063	6	Ring, Snap		512-0261*	1	115mm OD x 17mm Width
3	187-1048	3	Pin, Piston			1	125mm OD x 18mm Width
4			Piston	13	187-1113	1	Washer
	187-1272	3	Standard	14	187-1147	1	Bolt
	187-1202	3	0.25 Oversize)	15	187-1047	2	Washer, Thrust
5	187-1114	3	Bearing Set	16	187-1216	1	Washer Kit, Standard Thrust
6	187-1218	3	Rod, Connecting (Includes Bolts, Bush and Nuts)	17	187-1195	1	Crankshaft
7	187-1128	6	Bolt				
8	187-1049	3	Bush				
9	187-1129	6	Nut				

* All units after Serial no. K000173820, includes all HDCAD units.

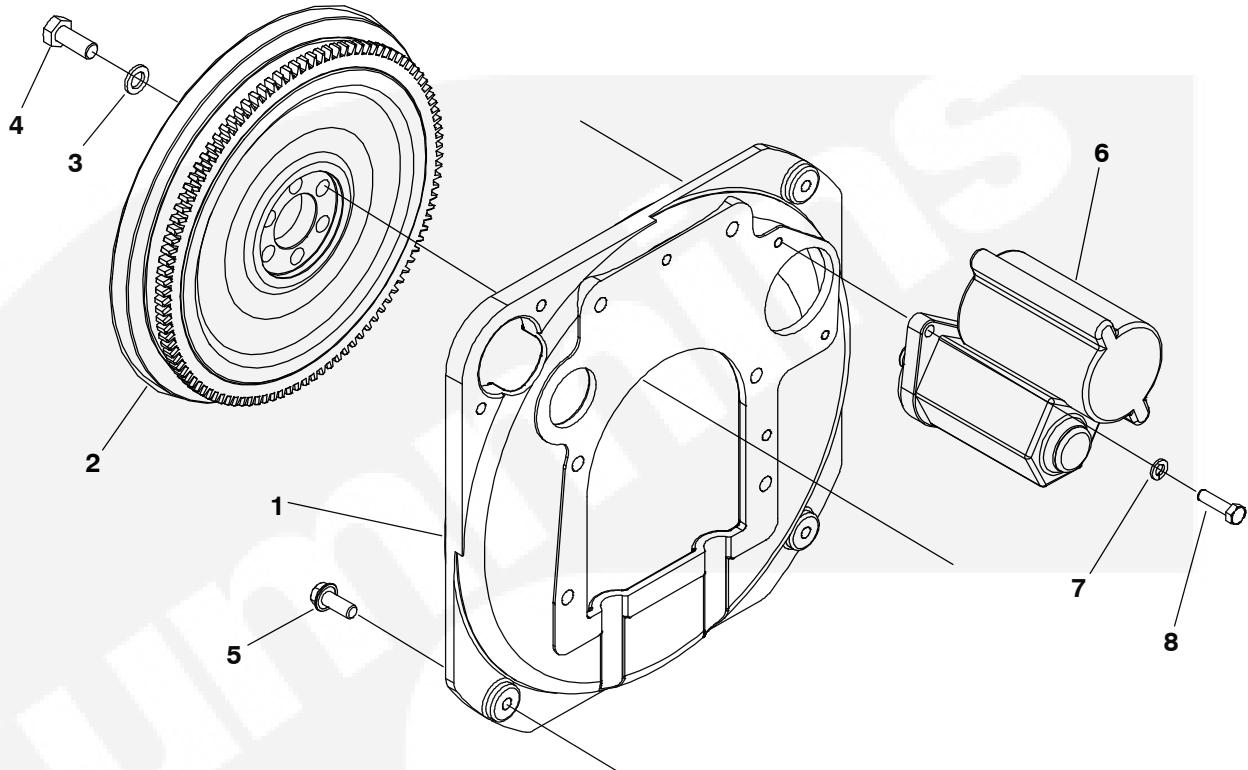
Camshaft/Idle Gear



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1228	1	Camshaft Assy (Includes Parts Marked *)	8	187-1035	1	Nut, Cam Gear
2	187-1304	1	*Bearing, Rear Ball	9	187-1016	2	Bolt
3	187-1227	1	*Ring, Camshaft Wear	10	187-1050	1	Collar, Thrust
4	187-1339	1	*Pin	11	187-1300	1	Gear, Idle (with Bush)
5	187-1303	1	*Bearing, Front Ball	12	187-1299	1	Shaft, Idle Gear
6	187-1238	1	Ring, Snap				
7	187-1273	1	Gear, Injection Pump & Valve				

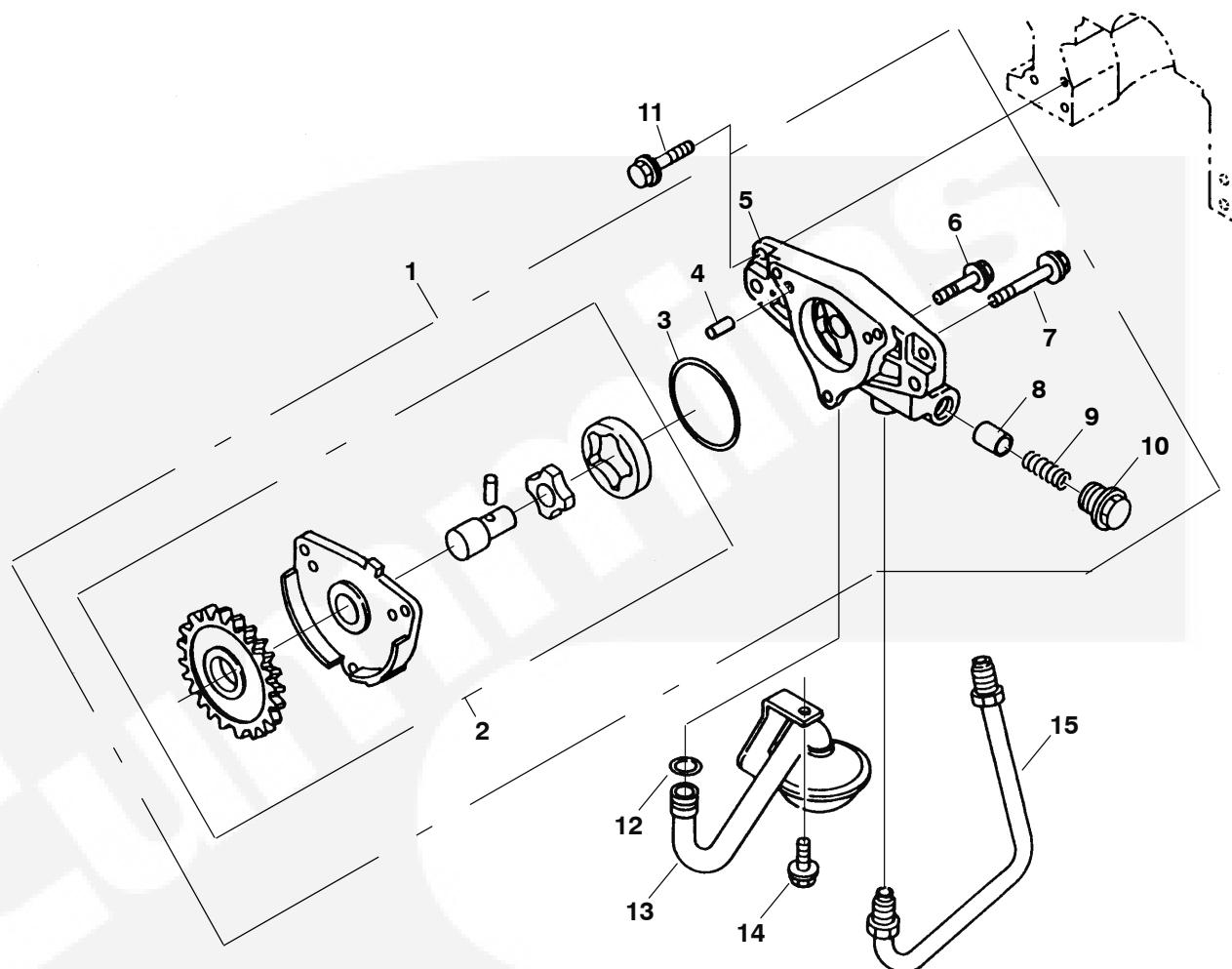
* – Parts Included in Camshaft Assy.

Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-1934	1	Housing, Flywheel	6	191-2229	1	Starter (See Separate Page for Components)
2	104-1936	1	Flywheel	7	850-2008	2	Washer, Lock (M8)
3	187-1158	6	Washer	8	800-2515	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
4	187-1112	6	Bolt				
5	821-2061	6	Screw, Lock Head Flange (M10 x 1.5 x 25mm)				

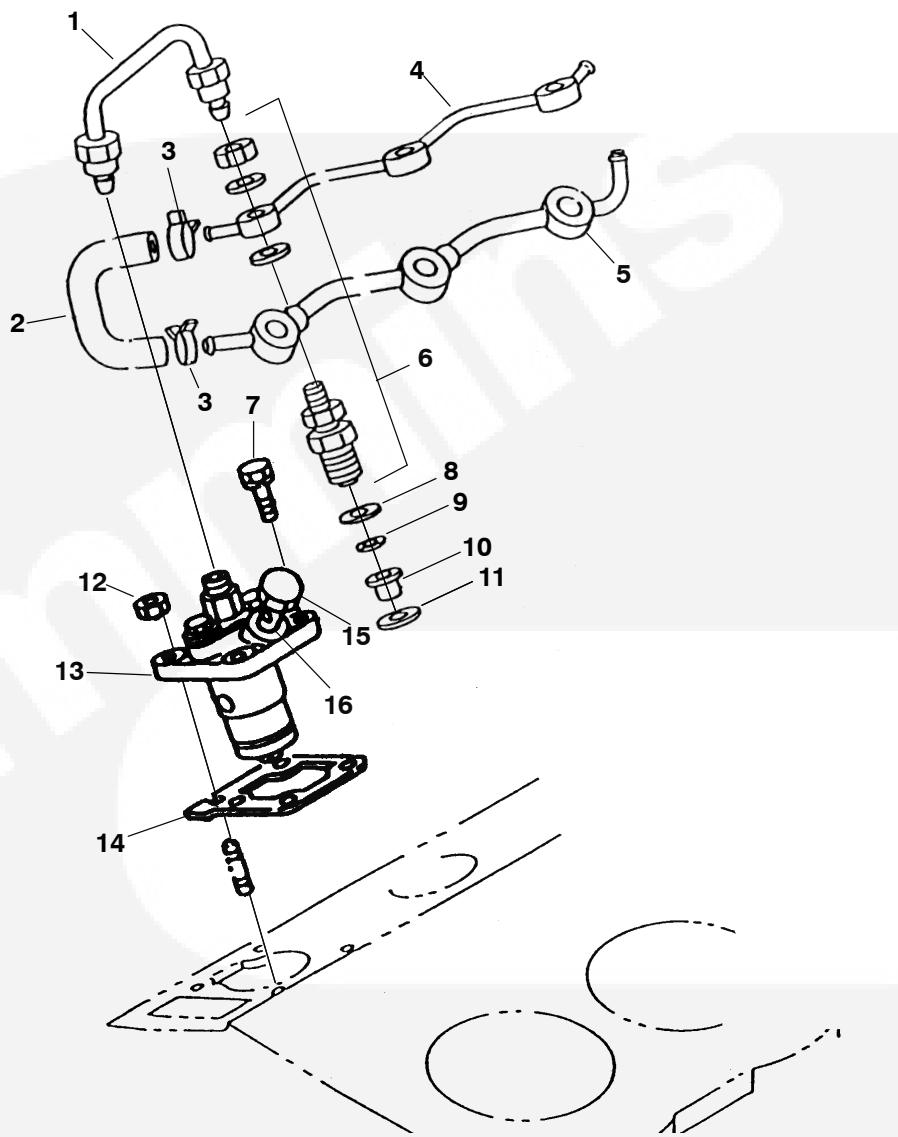
Oil Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1222	1	Pump Assy, Oil (Includes Parts Marked *)	10	187-1058	1	*Plug, Valve
2	187-1197	1	*Pump, Oil	11	187-1009	4	Bolt
3	187-1291	1	*O'Ring	12	187-1029	1	O'Ring, Strainer
4	187-1316	2	*Pin	13	187-1204	1	Strainer, Oil
5	187-1223	1	*Body	14	187-1007	1	Bolt
6	187-1005	2	*Bolt	15	187-1205	1	Pipe, Oil
7	187-1006	1	*Bolt				
8	187-1130	1	*Valve, Relief				
9	187-1293	1	*Spring, Valve				

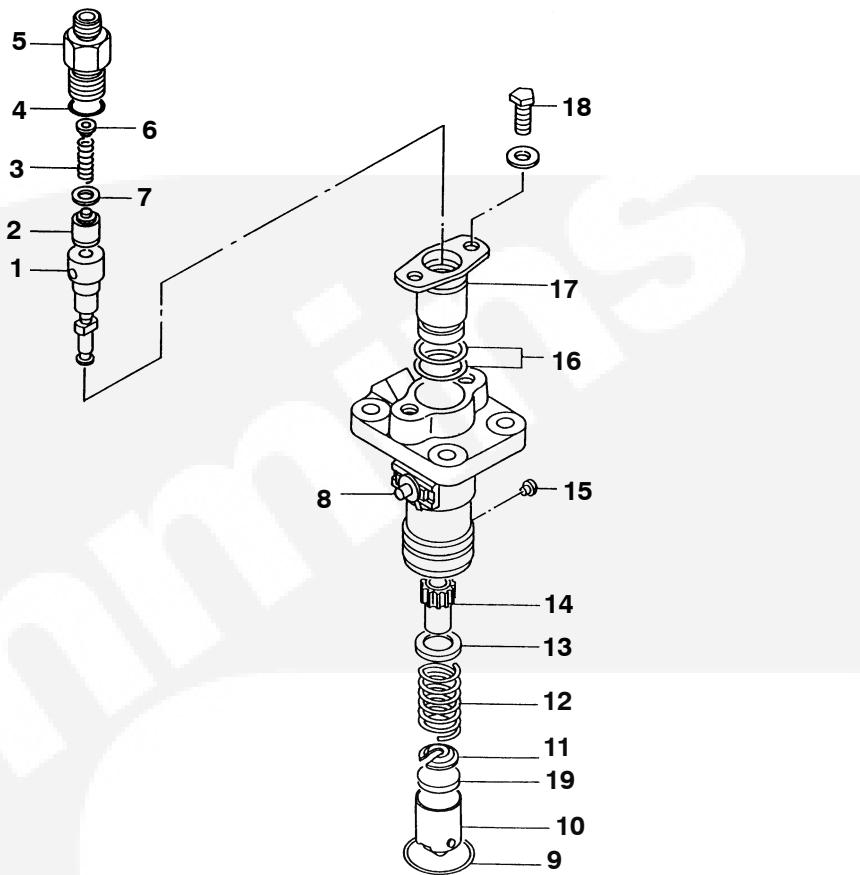
* – Parts Included in Oil Pump Assy.

Injection Pump



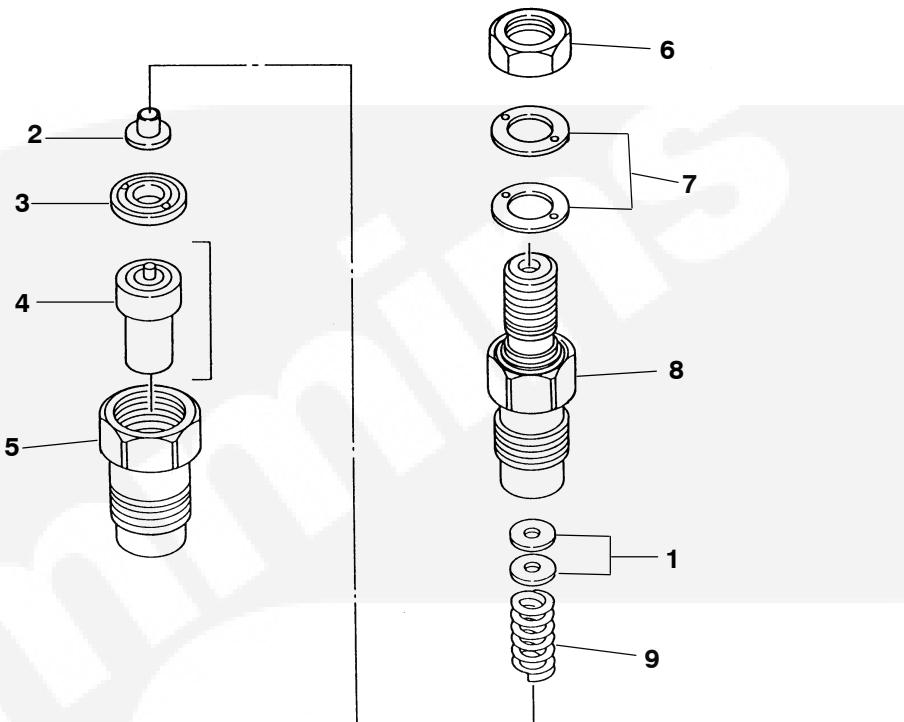
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1352	3	Pipe, Injection	14			Shim, Injection Pump
2	187-1215	1	Hose, Fuel Feed Leakoff	187-1166	AR	0.2mm	
3	187-1043	2	Clip, Fuel Hose	187-1167	AR	0.3mm	
4	187-1210	1	Pipe, Fuel Leakoff	187-1168	AR	0.4mm	
5	187-1270	1	Pipe, Fuel Feed	187-1169	AR	0.5mm	
6	187-1249	3	Nozzle Assy, Injection (See Separate Page for Components)	187-1170	AR	0.6mm	
7	187-1010	6	Bolt	187-1171	AR	0.7mm	
8	187-1136	3	Gasket, Nozzle Holder	187-1172	AR	0.8mm	
9	187-1060	3	Washer, Corrugated	187-1173	AR	1.0mm	
10	187-1061	3	Shield, Nozzle Heat	187-1174	AR	1.2mm	
11	187-1137	3	Gasket, Heat Shield	15	184-0009	1	Bolt
12	187-1019	6	Nut	16	184-0010	1	Gasket
13	187-1162	3	Pump Assy, Injection	* - See Separate Page for Components			

Injection Pump Components



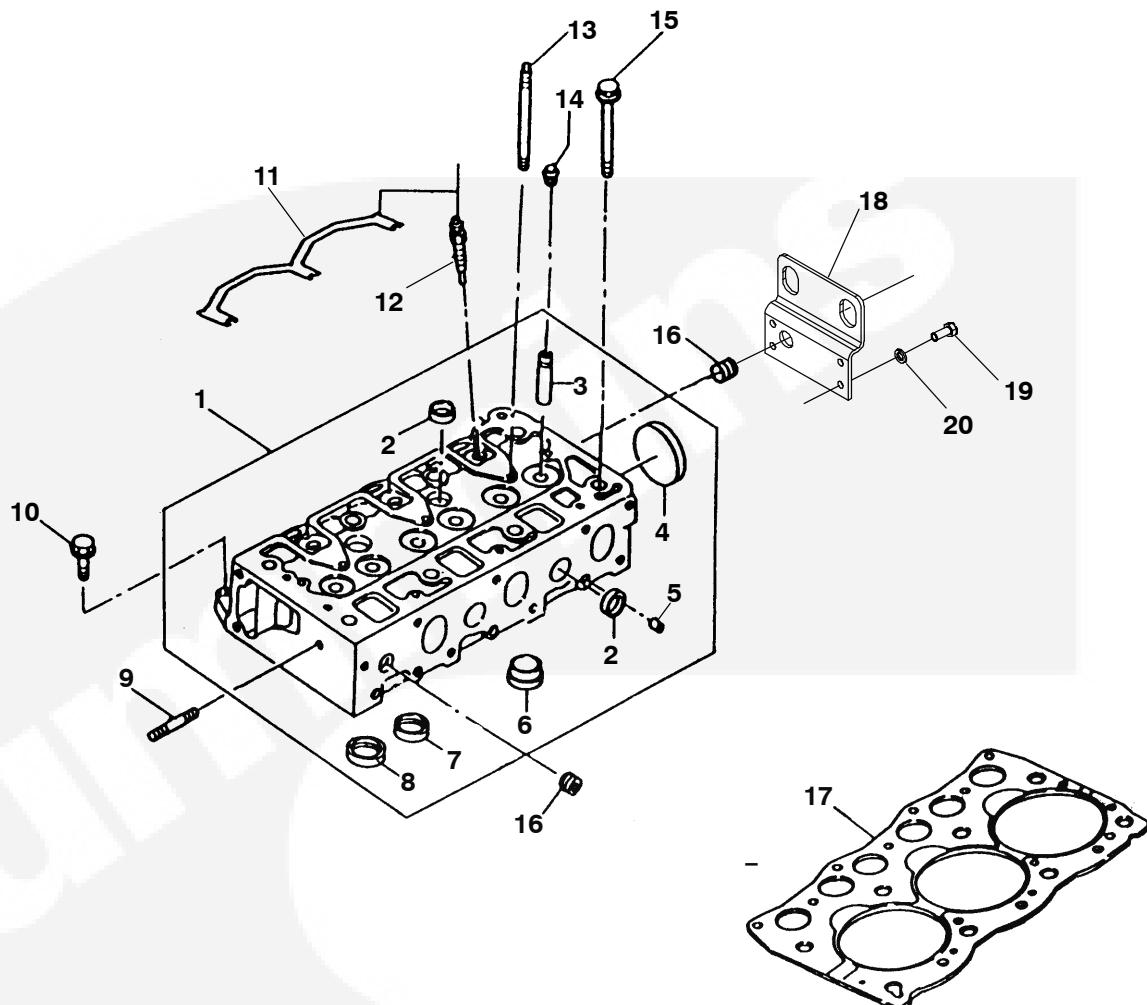
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
187-1162	1	1	Pump, Injection	187-1081	AR	2.90	
1 187-1302	3	3	Plunger	187-1082	AR	2.95	
2 187-1253	3	3	Valve, Delivery	187-1083	AR	3.00	
3 187-1067	3	3	Spring, Delivery	187-1084	AR	3.05	
4 187-1069	3	3	O'Ring	187-1085	AR	3.10	
5 187-1110	3	3	Holder, Delivery	187-1086	AR	3.15	
6 187-1254	3	3	Seat, Spring	187-1087	AR	3.20	
7 187-1068	3	3	Gasket	187-1088	AR	3.25	
8 187-1258	3	3	Rack, Control	187-1089	AR	3.30	
9 187-1257	3	3	Ring, Snap	187-1090	AR	3.35	
10 187-1070	3	3	Tappet	187-1091	AR	3.40	
11 187-1073	3	3	Seat, Spring (Lower)	187-1092	AR	3.45	
12 187-1071	3	3	Spring, Plunger	187-1093	AR	3.50	
13 187-1072	3	3	Seat, Spring (Upper)	187-1094	AR	3.55	
14 187-1074	3	3	Sleeve, Control	187-1095	AR	3.60	
15 187-1256	3	3	Pin	187-1096	AR	3.65	
16 187-1146	6	6	O'Ring	187-1097	AR	3.70	
17 187-1255	3	3	Sleeve, Flange	187-1098	AR	3.75	
18 187-1145	6	6	Bolt	187-1199	AR	3.80	
19			Plate	187-1100	AR	3.85	
187-1075	AR	2.60		187-1101	AR	3.90	
187-1076	AR	2.65		187-1102	AR	3.95	
187-1077	AR	2.70		187-1103	AR	4.00	
187-1078	AR	2.75		187-1104	AR	4.05	
187-1079	AR	2.80		187-1105	AR	4.10	
187-1080	AR	2.85					

Injection Nozzle Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1249	3	Nozzle, Injection Shim	2	187-1106	3	Seat, Spring
	187-1116	AR	0.1	3	187-1259	3	Spacer
	187-1117	AR	0.2	4	187-1346	3	Nozzle
	187-1125	AR	0.3	5	187-1264	3	Nut, Retaining
	187-1118	AR	0.4	6	187-1108	3	Nut
	187-1119	AR	0.5	7	187-1059	6	Gasket
	187-1120	AR	0.52	8	NFS	3	Body, Nozzle Holder
	187-1121	AR	0.54	9	187-1107	3	Spring, Nozzle
	187-1122	AR	0.56				
	187-1123	AR	0.58				
	187-1124	AR	0.8				

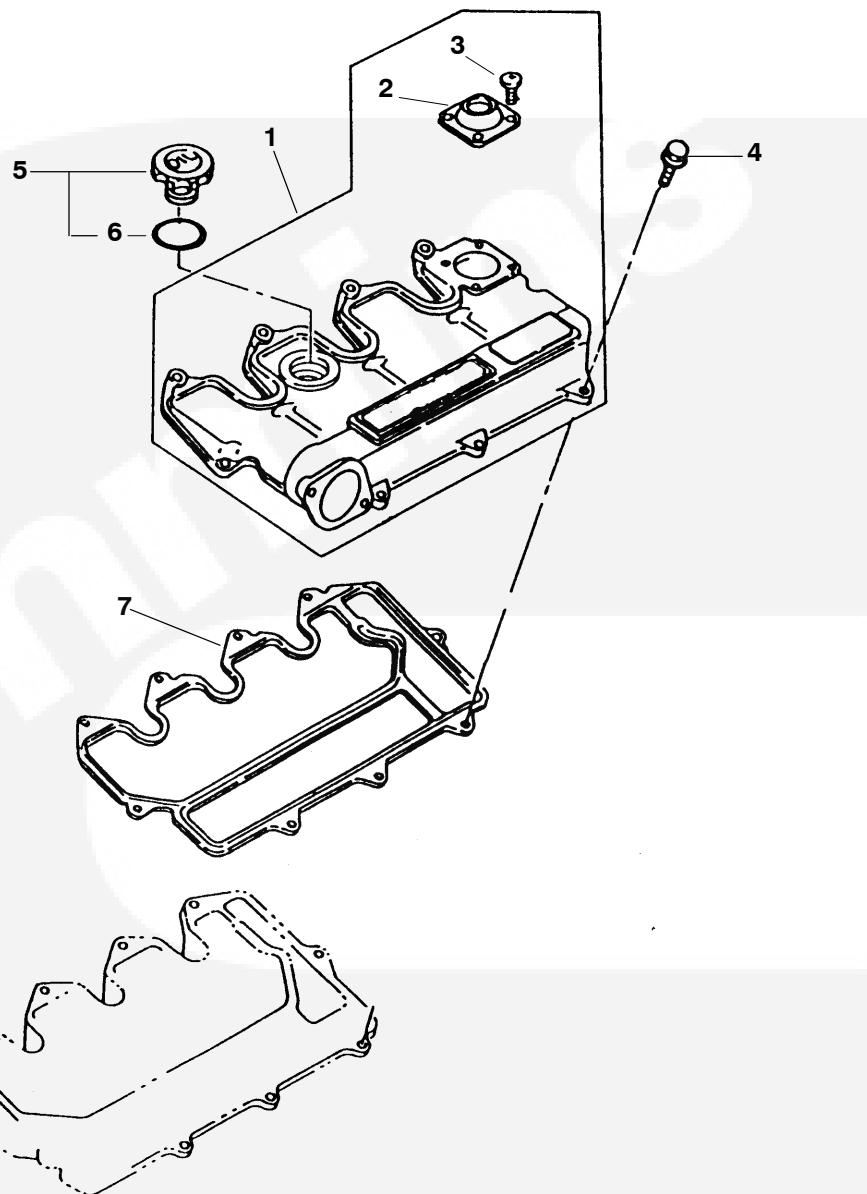
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1274	1	Head Assy, Cylinder (Includes Parts Marked *)	13	187-1269	5	Stud, Rocker Bracket
2	187-1023	4	*Cup, Sealing (22mm Dia.)	14	187-1062	6	Seal, Valve
3	187-1159	6	*Guide, Valve	15	187-1185	8	Bolt, Cylinder Head
4	187-1022	1	*Cup, Sealing (44.5mm Dia)	16	187-1040	2	Plug, Heater Switch (3/8"PT)
5	187-1044	4	*Plug, Drilled (8mm Dia.)	17	187-1201	1	Gasket, Cylinder Head
6	187-1226	3	*Plug, Hot	18	403-4209-02	1	Bracket, Lifting
7	187-1199	3	*Seat, Inlet Insert Valve	19	800-2056	4	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
8	187-1200	3	*Seat, Exhaust Insert Valve	20	526-2100	4	Washer, Lock (M8)
9	187-1310	1	Stud, Water Pump				
10	187-1152	4	Bolt, Cylinder Head				
11	187-1212	1	Cord, Glow Plug				
12	187-1289	3	Plug, Glow (HR1)				

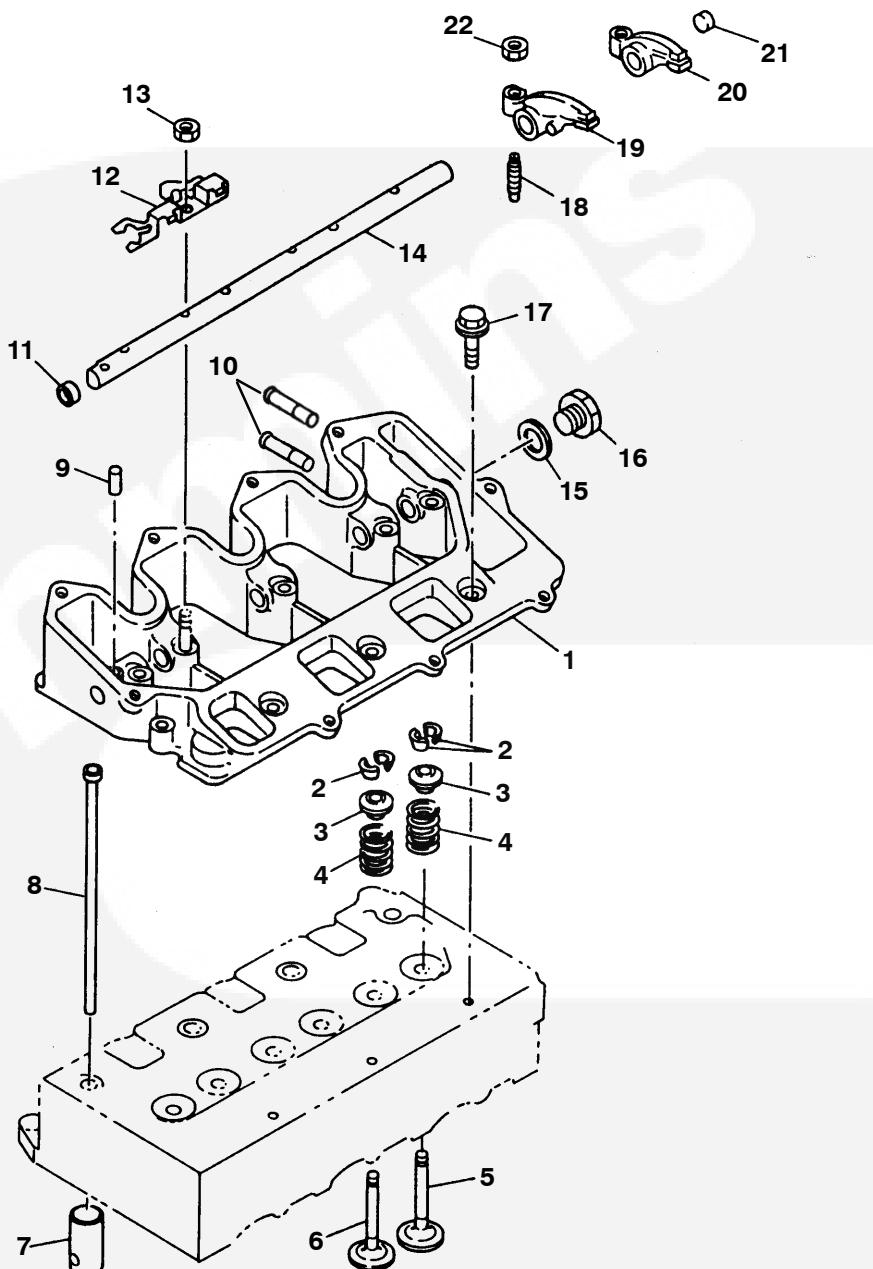
* – Parts Included in Cylinder Head Assy.

Cylinder Head Cover



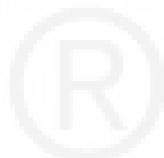
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1237	1	Cover Assy, Cylinder Head (Includes Ventilator Valve and Screws)	4	187-1003	9	Bolt, Cylinder Head Cover
2	187-1142	1	Valve, Ventilator	5	187-1111	1	Cap Assy, Oil Fill (Includes Gasket)
3	187-1305	4	Screw, Valve	6	187-1065	1	Gasket, Oil Fill Cap
				7	187-1240	1	Gasket, Cylinder Head Cover

Rocker Arm

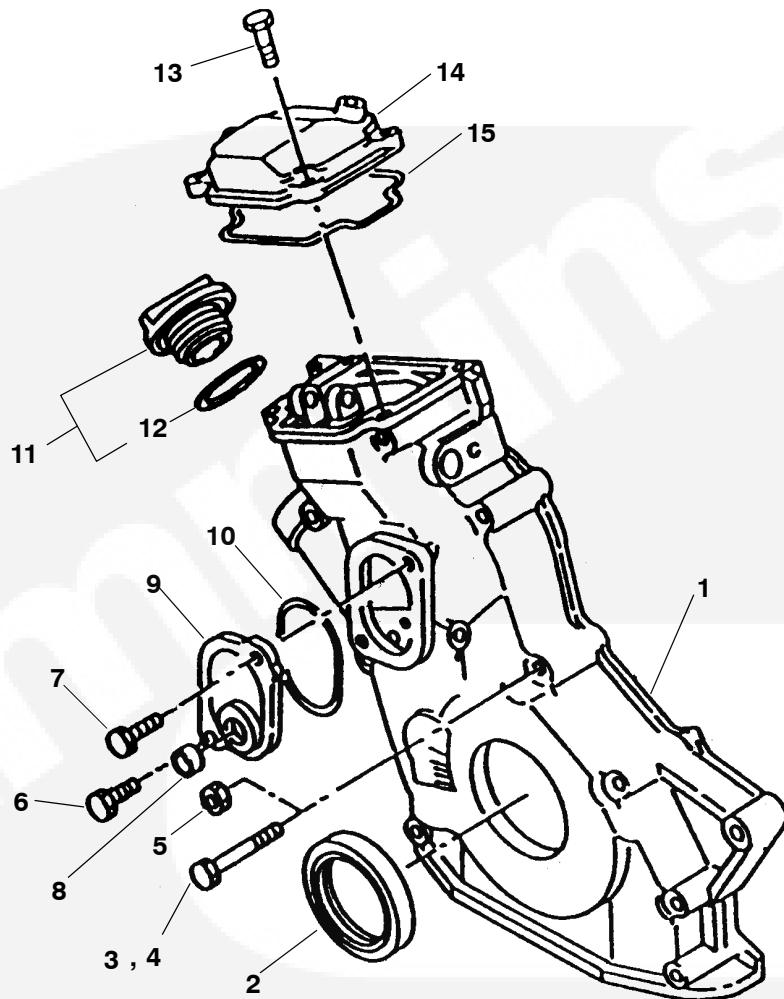


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1301	1	Bracket, Rocker	12	187-1239	3	Spring, Rocker
2	187-1132	12	Collar, Split	13	187-1018	5	Nut, Rocker Bracket
3	187-1135	6	Seat, Valve Spring	14	187-1238	1	Shaft, Rocker
4	187-1175	6	Spring, Valve	15	187-1334	1	Gasket, Plug
5	187-1211	3	Valve, Exhaust	16	187-1343	1	Plug, Rocker Shaft
6	187-1271	3	Valve, Inlet	17	187-1004	4	Bolt
7	187-1297	6	Tappet	18	187-1153	6	Screw
8	187-1233	6	Rod, Push	19	187-1295	3	Arm, Rocker (Inlet)
9	187-1338	1	Pin	20	187-1296	3	Arm, Rocker (Exhaust)
10	187-1198	2	Pipe	21	187-1191	1	Cup, Sealing (8mm)
11	187-1038	1	Cup, Sealing (12mm)	22	187-1322	6	Nut

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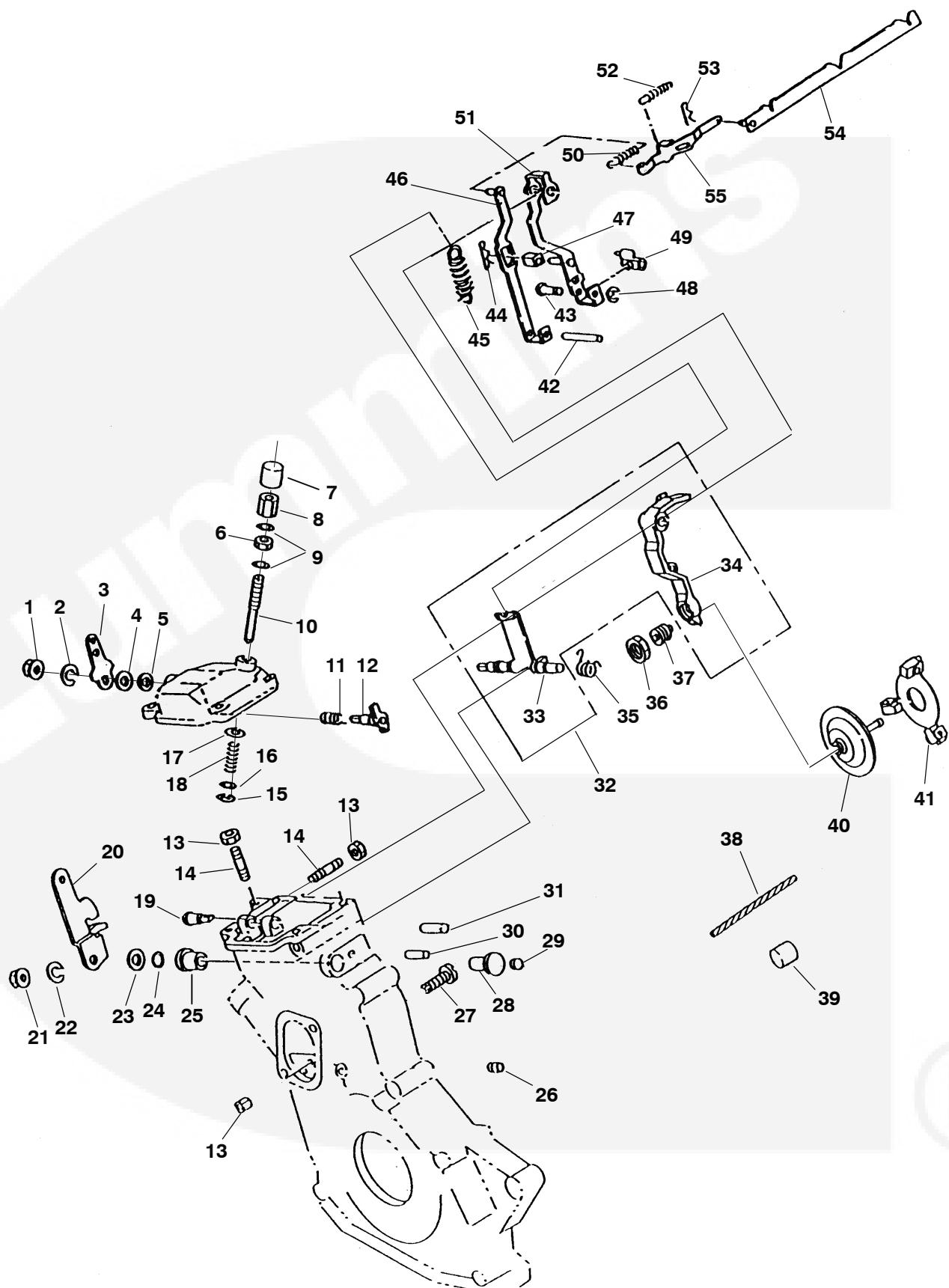


Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1267	1	Gearcase	9	187-1189	1	Cover, Gearcase
2	187-1041	1	Seal, Crankshaft Front Oil	10	187-1332	1	O'Ring, Gearcase Cover
3	187-1016	6	Bolt, Timing Case	11	187-1149	1	Cap Assy, Oil Fill (Includes Gasket)
4	187-1014	2	Bolt, Timing Case	12	187-1065	1	Gasket, Oil Fill Cap
5	187-1019	2	Nut, Timing Case	13	187-1003	4	Bolt, Cover
6	187-1243	1	Bolt, W/ Detent Hole	14	187-1348	1	Cover, Governor Lever
7	187-1002	1	Bolt, Cover	15	187-1229	1	Gasket, Governor Lever Cover
8	187-1045	1	Cup, Sealing (16mm Dia.)				

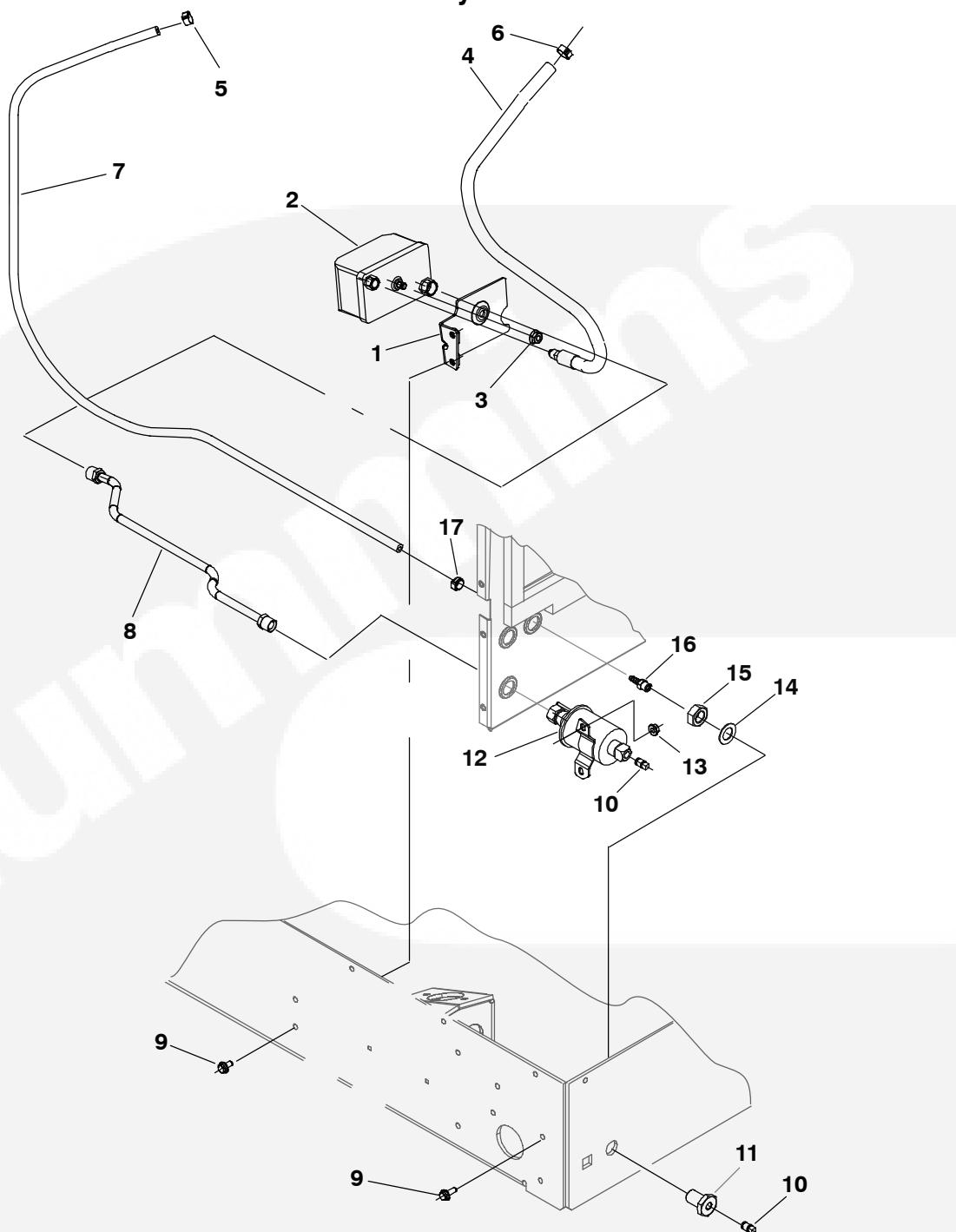
Governor



Governor

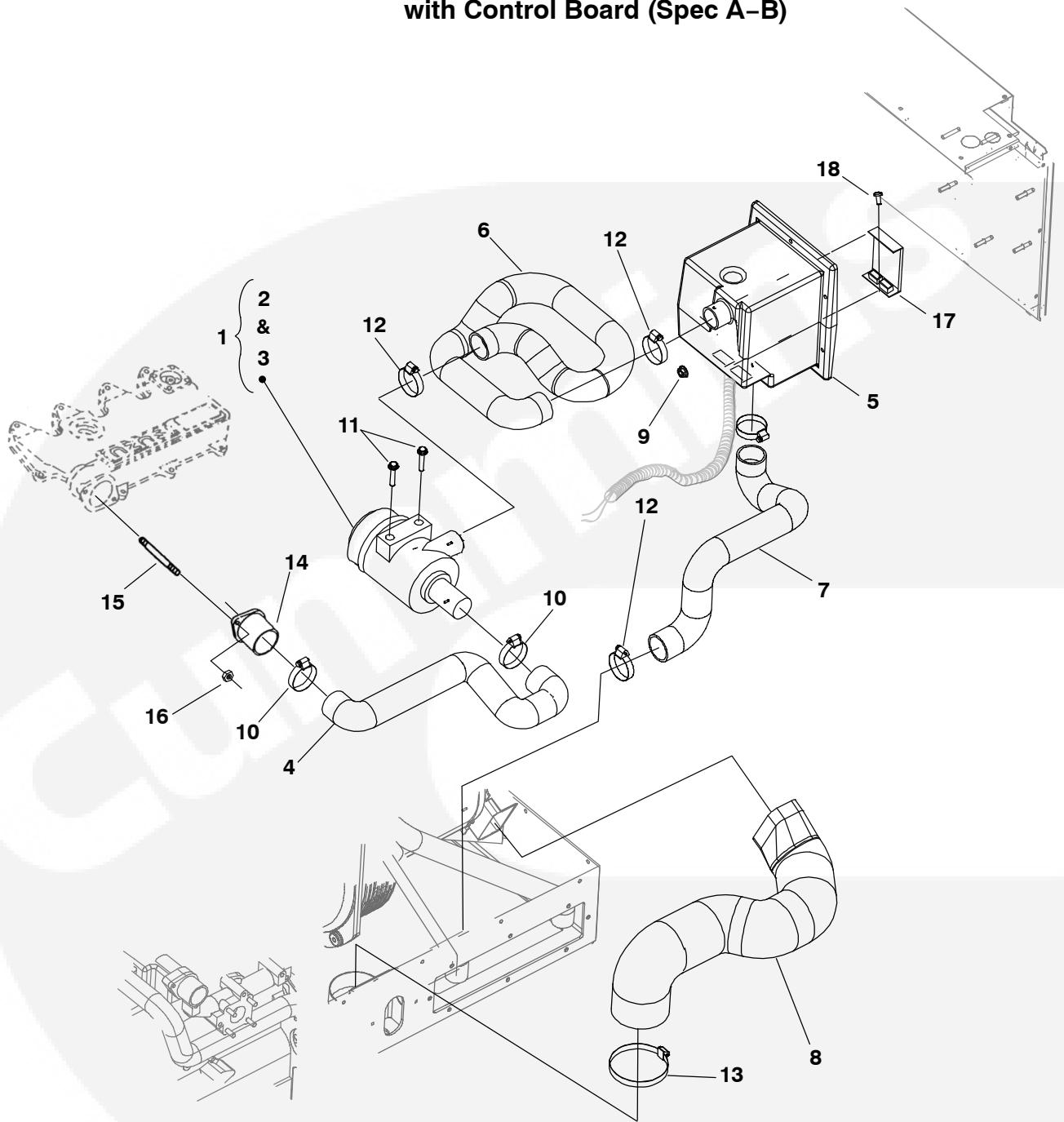
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1321	1	Nut, Shaft Lever	30	187-1313	1	Pin, Control Spring
2	187-1324	1	Washer, Spring	31	187-1318	1	Shaft, Lever
3	187-1156	1	Lever, Fuel Cut	32	187-1268	1	Lever Kit, Governor (Includes Main Spring Lever and Tension Lever)
4	187-1037	1	Washer, Thrust				
5	187-1031	1	O'Ring, Shaft	33	187-1182	1	Lever, Main Spring
6	187-1322	1	Nut, Set Screw	34	187-1178	1	Lever, Governor Tension
7	187-1052	1	Cap, Idle Set	35	187-1157	1	Spring, Return
8	187-1034	1	Nut, Set Screw Cap	36	187-1109	1	Nut, Holder
9	187-1036	2	Gasket, Set Screw	37	187-1057	1	Kit, Angleich
10	187-1154	1	Screw, Idle Spring Set	38	187-1342	2	Wire, Lead Seal
11	187-1192	1	Spring, Fuel Cut Return	39	187-1032	2	Seal, Lead
12	187-1155	1	Shaft, Fuel Cut	40	187-1266	1	Sleeve
13	187-1322	3	Nut, Screw	41	187-1213	1	Flyweight
14	187-1138	2	Screw, Speed Set Control	42	187-1315	1	Shaft, Floating Lever
15	187-1329	1	Ring, Idle Spring Snap	43	187-1319	1	Shaft, Shifter
16	187-1326	1	Washer, Idle Spring Lower	44	187-1030	1	Pin, Governor Lever Sprit
17	187-1327	1	Washer, Idle Spring Upper	45	187-1234	1	Spring, Main
18	187-1347	1	Spring, Idle	46	187-1251	1	Lever, Floating
19	187-1053	1	Eye, Start Spring	47	187-1292	1	Piece, Governor Lever
20	187-1225	1	Lever, Governor Control				Guide Pin
21	187-1321	1	Nut, Lever to Shaft	48	187-1330	1	Ring, Snap
22	187-1324	1	Washer, Spring	49	187-1179	1	Shifter, Governor
23	187-1037	1	Washer, Thrust	50	187-1262	1	Spring, Set
24	187-1031	1	O'Ring, Control Shaft	51	187-1164	1	Lever, Guide
25	187-1144	1	Bush, Main Spring Lever	52	187-1183	1	Spring, Start
26	187-1349	1	Plug, Shaft (1/8"PT)	53	187-1030	1	Pin, Link Plate Snap
27	187-1193	1	Screw, Full Load Set	54	187-1288	1	Link, Control
28	187-1188	1	Bush, Main Spring Lever	55	187-1180	1	Plate, Lever Pump Link
29	187-1150	1	Cup, Bush Sealing (10mm Dia.)				

Fuel System



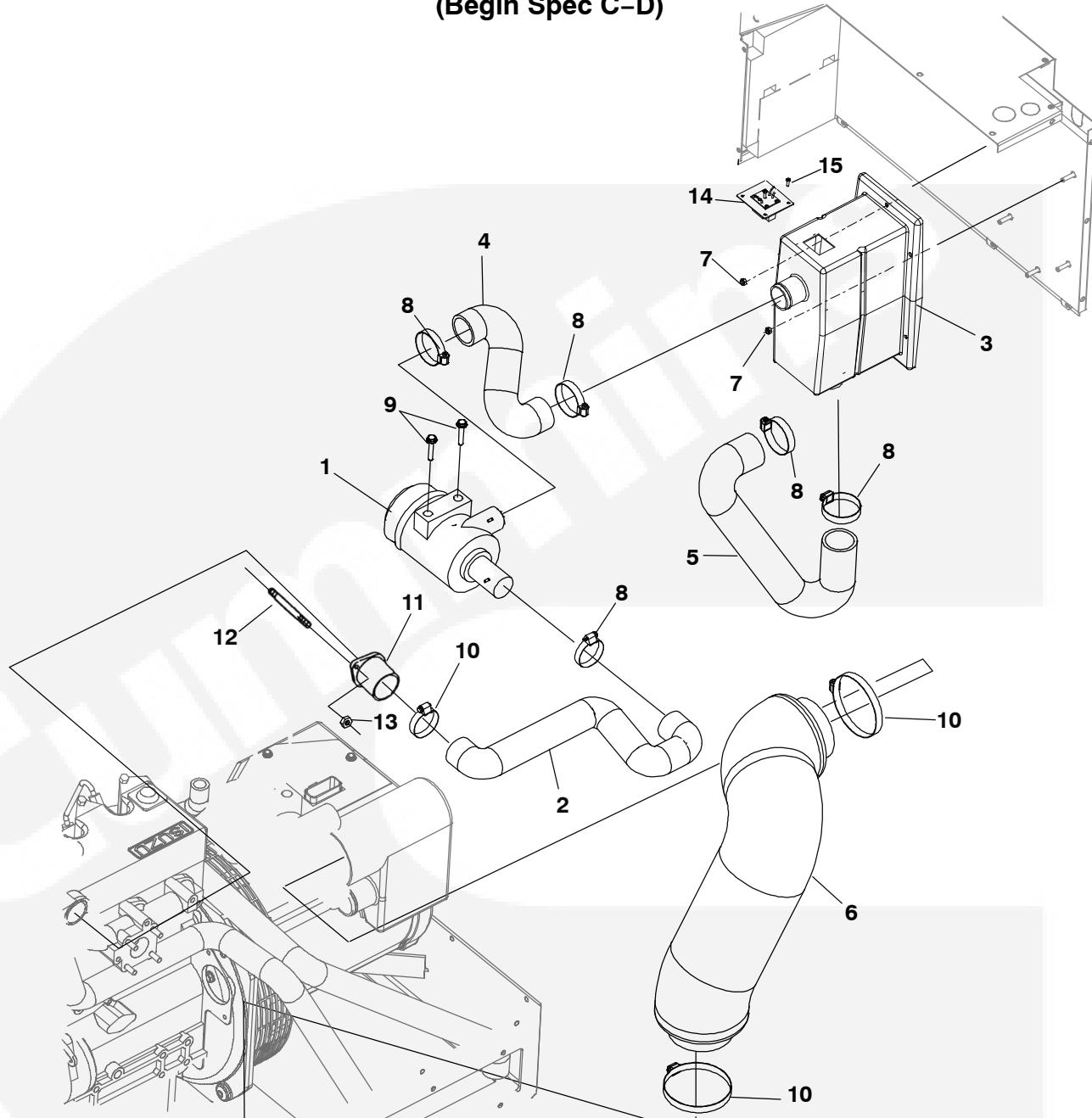
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2585-04	1	Bracket, Fuel Filter	10	517-0273	2	Plug, Pipe
2	149-2513	1	Filter, Fuel	11	502-1296-02	1	Fitting, Bulkhead
3	870-0257	1	Nut, Self Locking (5/16-18)	12	149-2790	1	Pump, Fuel (E2)
4	149-2580-01	1	Line, Fuel Injection Pump	13	870-2054	2	Nut, Lock Flange (M6 x 1mm)
5	503-1951-09	1	Clamp, Hose	14	854-0028	1	Washer, IT Lock (5/8")
6	503-1951-12	1	Clamp, Hose	15	868-0007	1	Nut, Hex Jam (5/8-18)
7	503-2078	1	Line, Fuel	16	502-1299	1	Connector, Hose
8	149-2605	1	Line, Fuel Filter	17	503-0685	1	Clamp, Hose
9	821-2096-02	4	Screw, Lock Flange				

**Air Intake System
with Control Board (Spec A-B)**



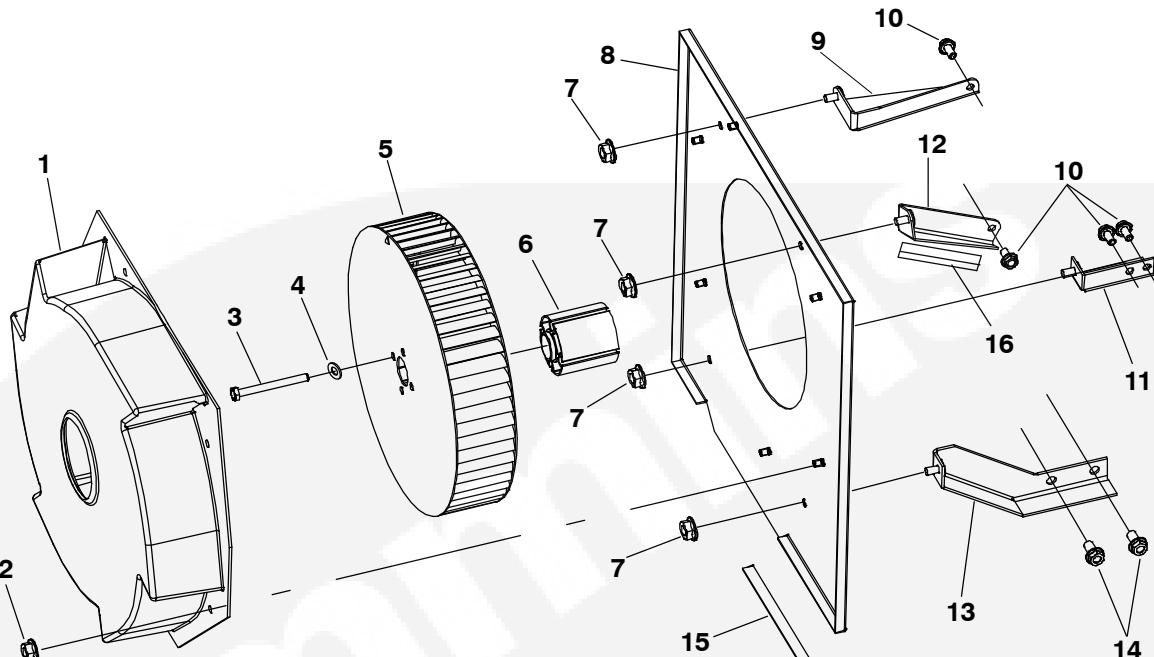
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3050	1	Cleaner Assy, Air (Includes Element and Cover)	11	821-2097-06	2	Screw, Lock Flange (M8 x 1.25 x 40mm)
2	140-3071	1	Element, Air Cleaner	12	503-1872-02	4	Band, Hose Clamp
3	140-3072	1	Cover, Air Cleaner	13	503-1148	1	Band, Hose Clamp
4	503-2053	1	Hose, Intake	14	187-1165	1	Pipe, Air Inlet
5	134-5183	1	Resonator, Intake	15	187-1307	2	Stud, Inlet Pipe
6	503-2054-02	1	Hose, Intake	16	187-1018	2	Nut, Inlet Pipe
7	503-2054-01	1	Hose, Intake	17	305-0953-03	1	Control
8	211-0484-01	1	Tube, Air Intake	18	823-0002-09	3	Screw, Pan Head Machine (M4 x 0.75 x 16mm)
9	870-0506	6	Nut, Nylon Lock (M6 x 1)				
10	503-1141	2	Band, Hose Clamp				

**Air Intake System
(Begin Spec C-D)**



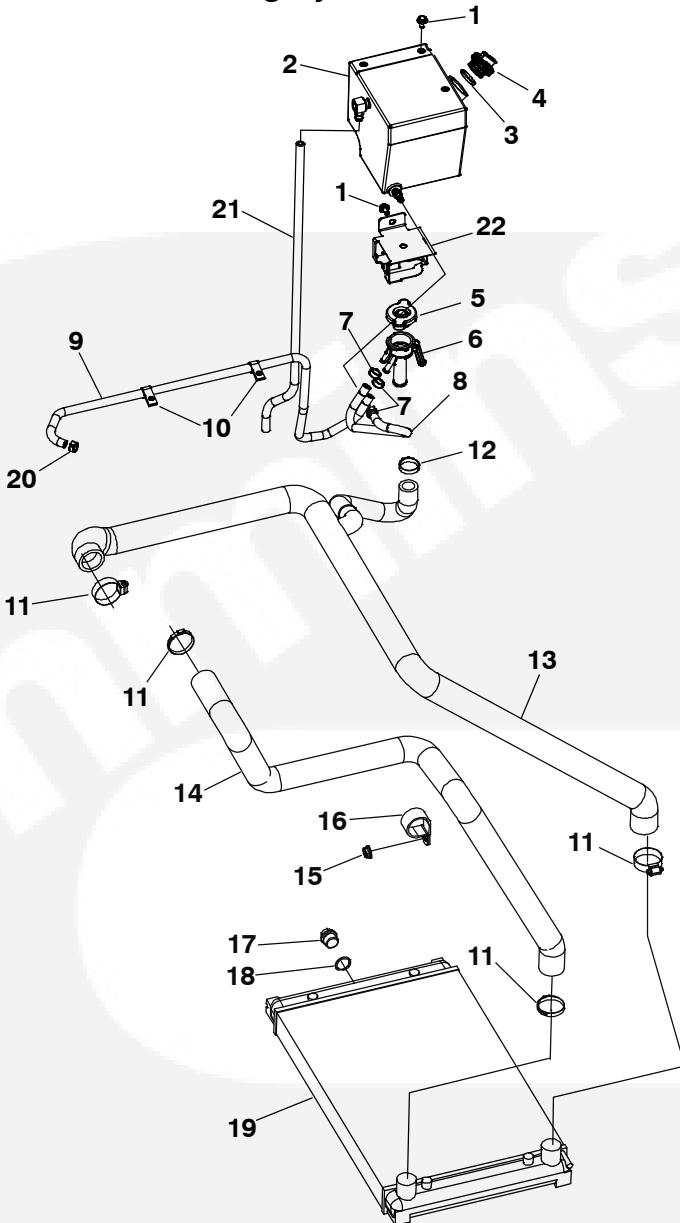
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3050	1	Cleaner Assy, Air (Includes Element and Cover)	8	503-0365	6	Band, Hose Clamp
	140-3071	1	Element, Air Cleaner	9	821-2097-06	2	Screw, Lock Flange (M8 x 1.25 x 40mm)
	140-3072	1	Cover, Air Cleaner	10	503-1148	2	Band, Hose Clamp
2	503-2053	1	Hose, Intake	11	187-1165	1	Pipe, Air Inlet
3			Resonator, Intake	12	187-1307	2	Stud, Inlet Pipe
	140-3519	1	Spec C	13	187-1018	2	Nut, Inlet Pipe
	140-3519-01	1	Begin Spec D	14	315-1651	1	Transformer, Current (Begin Spec D)
4	503-2436	1	Hose, Air	15	815-0888	4	Screw, Pan Head (SDT) (Begin Spec D)
5	503-2435	1	Hose, Air				
6	503-2446	1	Hose, Intake				
7	870-0506	5	Nut, Nylon Lock (M6 x 1)				

Fan Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4760	1	Scroll, Fan Spec A-B	9	130-4824-02	1	Bracket, Backplate
	134-5314-03	1	Begin Spec C	10	821-2045	4	Screw, Lock Flange (M8 x 1.25 x 16mm)
2	870-2054	6	Nut, Lock Flange (M6 x 1)	11	130-4745-02	1	Bracket, Backplate
3	800-2069	4	Screw, Hex Head Cap (M8 x 1.25 x 80mm)	12	130-4825-02	1	Bracket, Backplate
4	526-2100	4	Washer, Flat (M8)	13	130-4826-02	1	Bracket, Backplate
5	130-4748	1	Fan, Sucker	14	821-2060	2	Screw, Lock Flange (M10 x 1.5 x 20mm)
6	130-1876	1	Spacer, Fan	15	508-1042-08	1	Edging (102mm)
7	870-2055	4	Nut, Lock Flange (M8 x 1.25mm)	16	508-0239	1	Edging
8	130-4742-02	1	Backplate, Fan Spec A-B				
	205-0305-03	1	Begin Spec C				

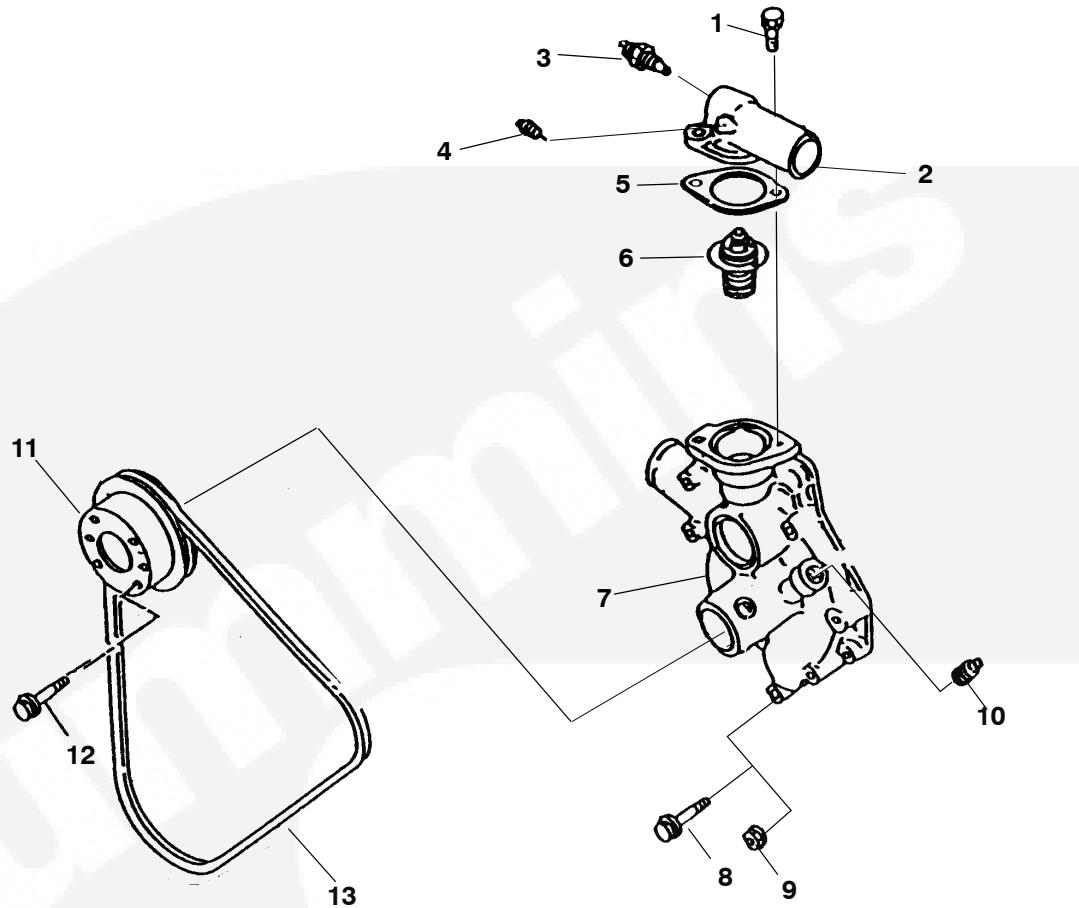
Cooling System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Screw, Lock Flange (M6 x 1 x 12mm) Spec A-B	14	503-2055	1	Hose, Engine (Out)
	821-2096-02	3	Begin Spec C	15	870-2056	1	Nut, Lock Flange (M10 x 1.5mm)
2	130-4322-01	1	Tank, Recovery	16	332-2898	1	Clamp, Loop
3	509-0329	1	O'Ring	17	870-0553	1	Plug, Hex Head Screw (M22 x 1.55mm)
4	130-4450-02	1	Cap, Push-On	18	509-0347	1	O'Ring
5	130-4320	1	Cap, Fill	19	130-4722	1	Radiator
6	130-4321	1	Neck, Fill	20	503-1951-09	1	Clamp, Hose
7	503-1951-12	3	Clamp, Hose	21	503-1959	1	Hose, Cooling Over Flow (Begin Spec C)
8	503-2059	1	Hose, Overflow				
9	503-2060	1	Hose, Air Bleed	22	123-2240-03	1	Bracket, Fill Tube (Begin Spec C)
10	332-1554	2	Clamp, Hose				
11	503-1138	4	Clamp, Hose				
12	503-1951-35	1	Clamp, Hose				
13		1	Hose, Engine (In)				
	503-2056	1	Spec A-B				
	503-2460	1	Begin Spec C				

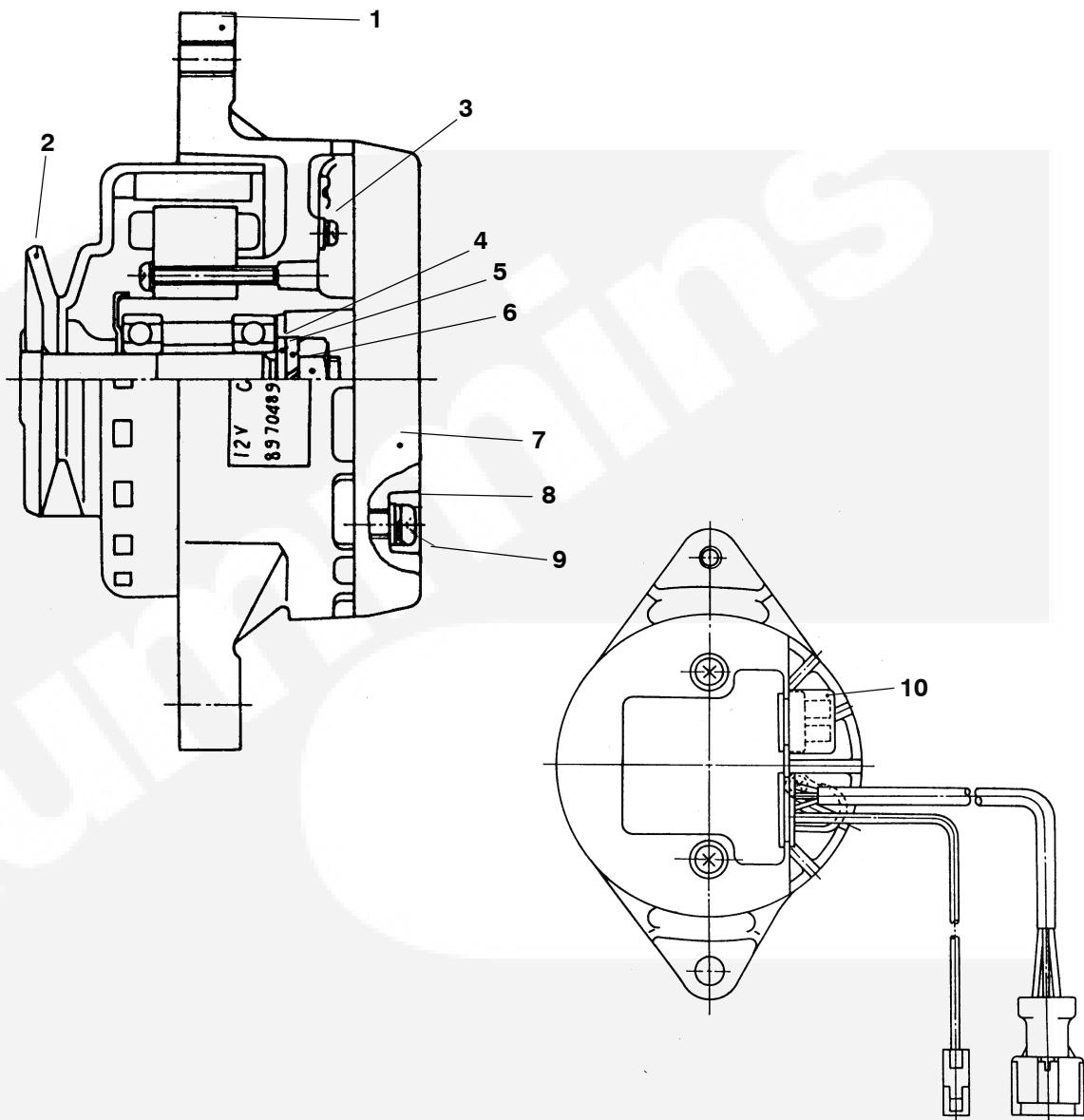
* - 130-4322, Recovery Tank now comes with overflow elbow.

Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1010 815-0954-03	2	Screw, Hex Flange M8 x1.25 x 40mm * M8 x1.25 x 25mm	9	187-1019	2	Nut
2	187-1280 187-0860	1	Housing, Thermostat 41mm ID *49mm ID w / Bolts	10	187-1040	1	Plug, Heater (PT 3/8)
3	193-0318	1	Sender, Water Temperature (E3)	11	187-1187 512-0260	1	Pulley, Fan 101mm OD x 15mm Wide ** 112 mm OD x 22mm Wide
4	502-1306	1	Connector, Hose	12	187-1001	2	Bolt, Pulley
5	187-1141 184-0005	1	Gasket, Outlet Pipe 41mm ID * 49mm ID	13	511-0210 511-0212	1	Belt, Cooling Fan * Serial No. J99 and Older ** Serial No. G01 and Newer
6	187-1350 187-1354	1	Thermostat 44mm OD * 54mm OD				* A pulley that measures 5/8" wide uses the 511-0210 on generators with serial numbers J99 and older. ** A pulley that measures 3/4" wide uses the 511-0212 on generator with serial numbers G01 and newer. ***Sets with serial numbers between J99 to G01 may have either pulley as we don't have the exact serial number cutoff from the engine supplier.
7	187-1298 187-1355	1	Pump, Water 41mm Top Outlet * 49mm Top Outlet				
8	187-1011 187-1016 187-1010	1	Bolt 45mm 60mm 40mm				

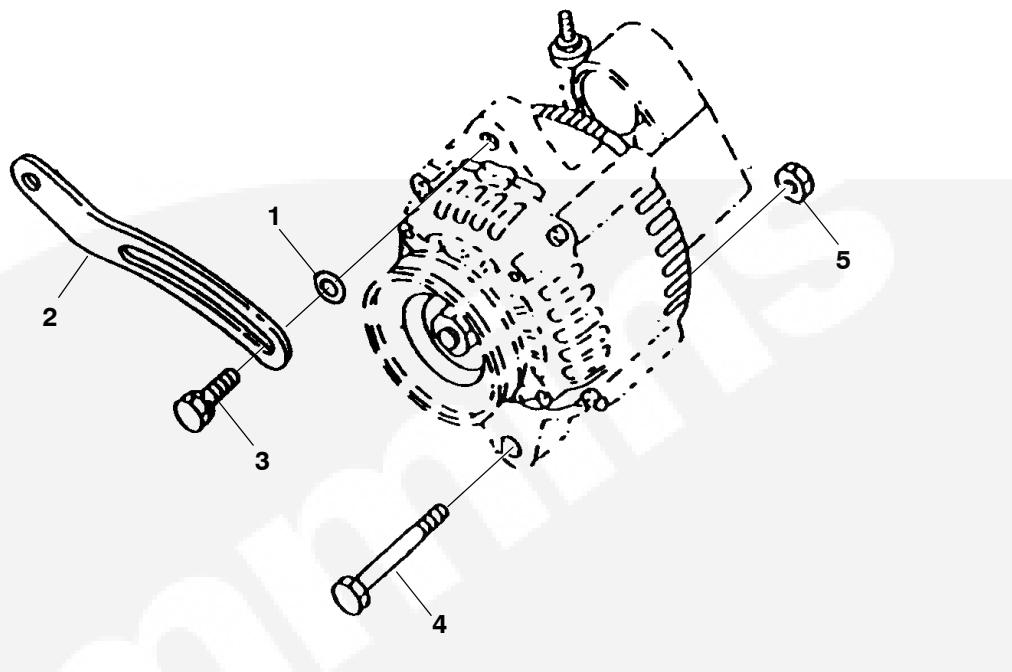
Alternator Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	187-1224	1	Alternator (12V, 20A, 65mm Pulley)	5	187-1055	1	Washer, Spring
	191-2329	1	*Alternator (12V, 20A, 74.5mm Pulley)	6	187-1054	1	Nut
1	187-1282	1	Plate Assy (Includes Bushings and Bearings)	7	187-1284	1	Regulator
2			Pulley	8	187-1306	2	Screw
	187-1283	1	65mm OD	9	187-1326	2	Washer
	512-0262	1	74.5mm OD	10	187-1285	1	Cap, Terminal
3	187-1305	1	Screw				
4	187-1056	1	Washer				

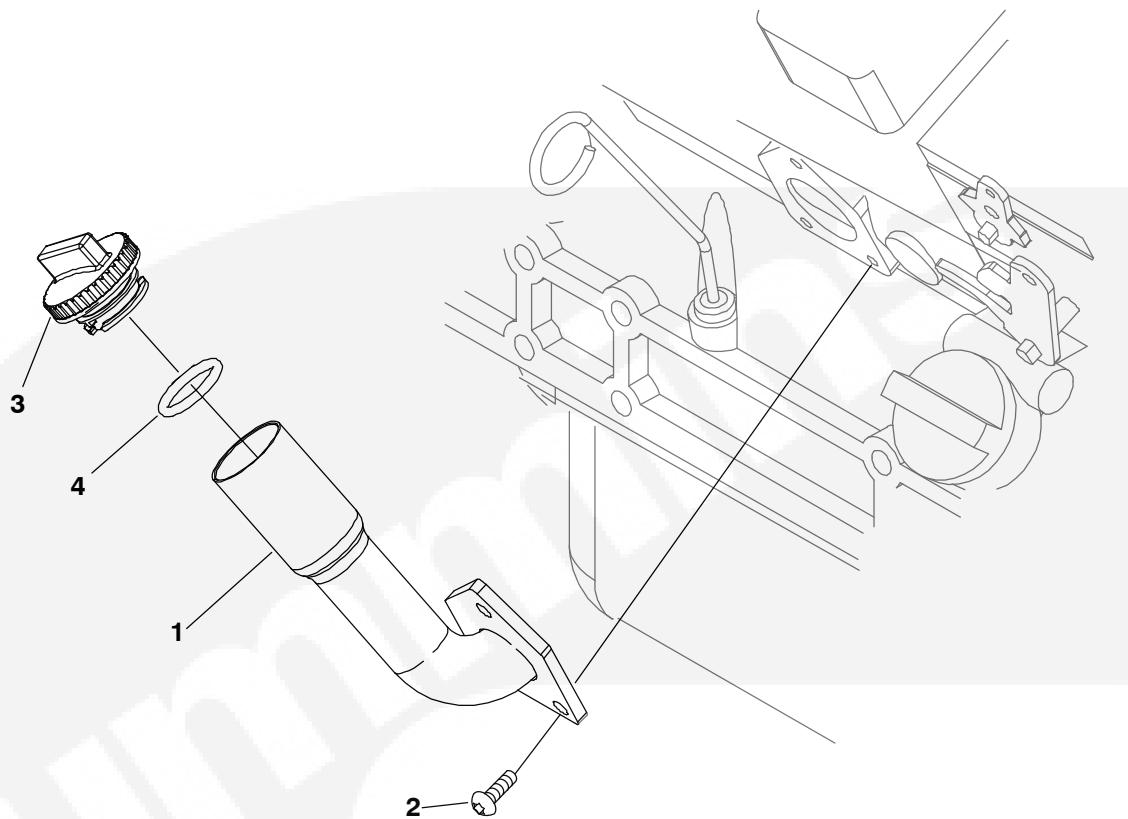
* All units after Serial no. K000173820, includes all HDCAD units.

Alternator Mounting



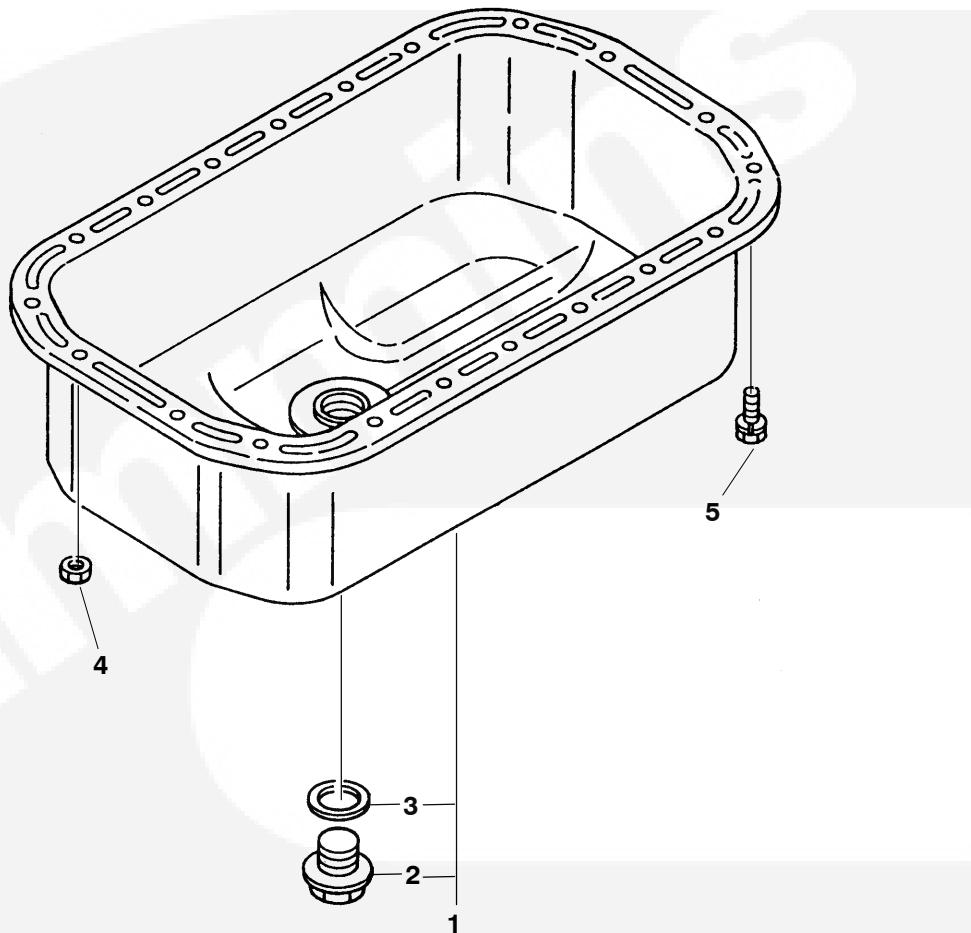
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1345	1	Spacer	4	187-1015	1	Bolt
2	187-1051	1	Plate, Adjustment	5	187-1020	1	Nut
3	187-1010	1	Bolt				

Oil Fill



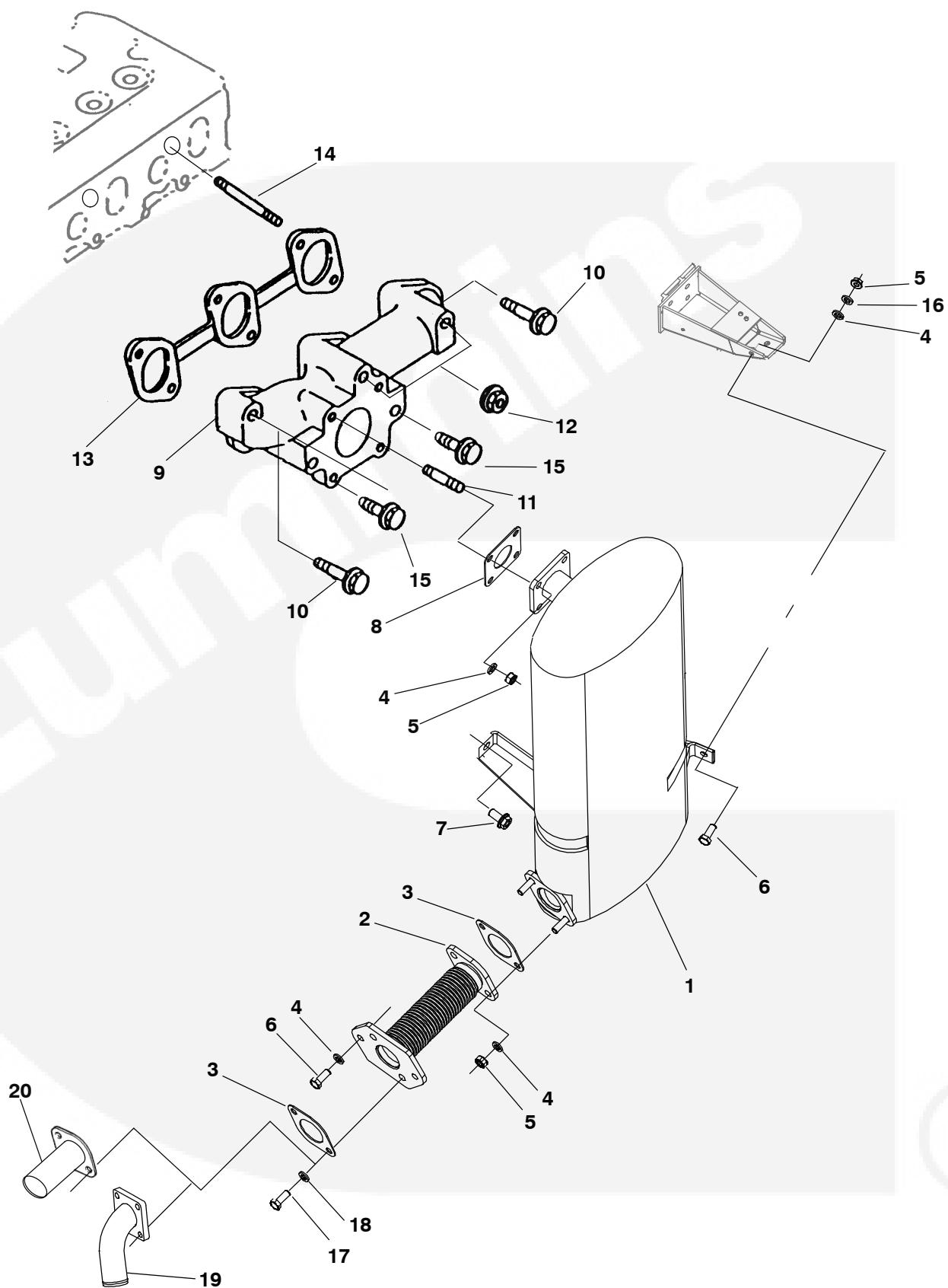
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2113-02	1	Tube, Oil Fill	3	130-4450-01	1	Cap, Push-On
2	823-1002-03	3	Screw, Pan Head Torx (M6 x 1 x 10mm)	4	509-0329	1	O'Ring

Oil Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	187-1203	1	Pan, Oil (Includes Plug and O'Ring)	3	187-1028	1	O'Ring, Oil Drain Plug
2	187-1336	1	Plug	4	187-1018	18	Nut
				5	187-1002	2	Bolt

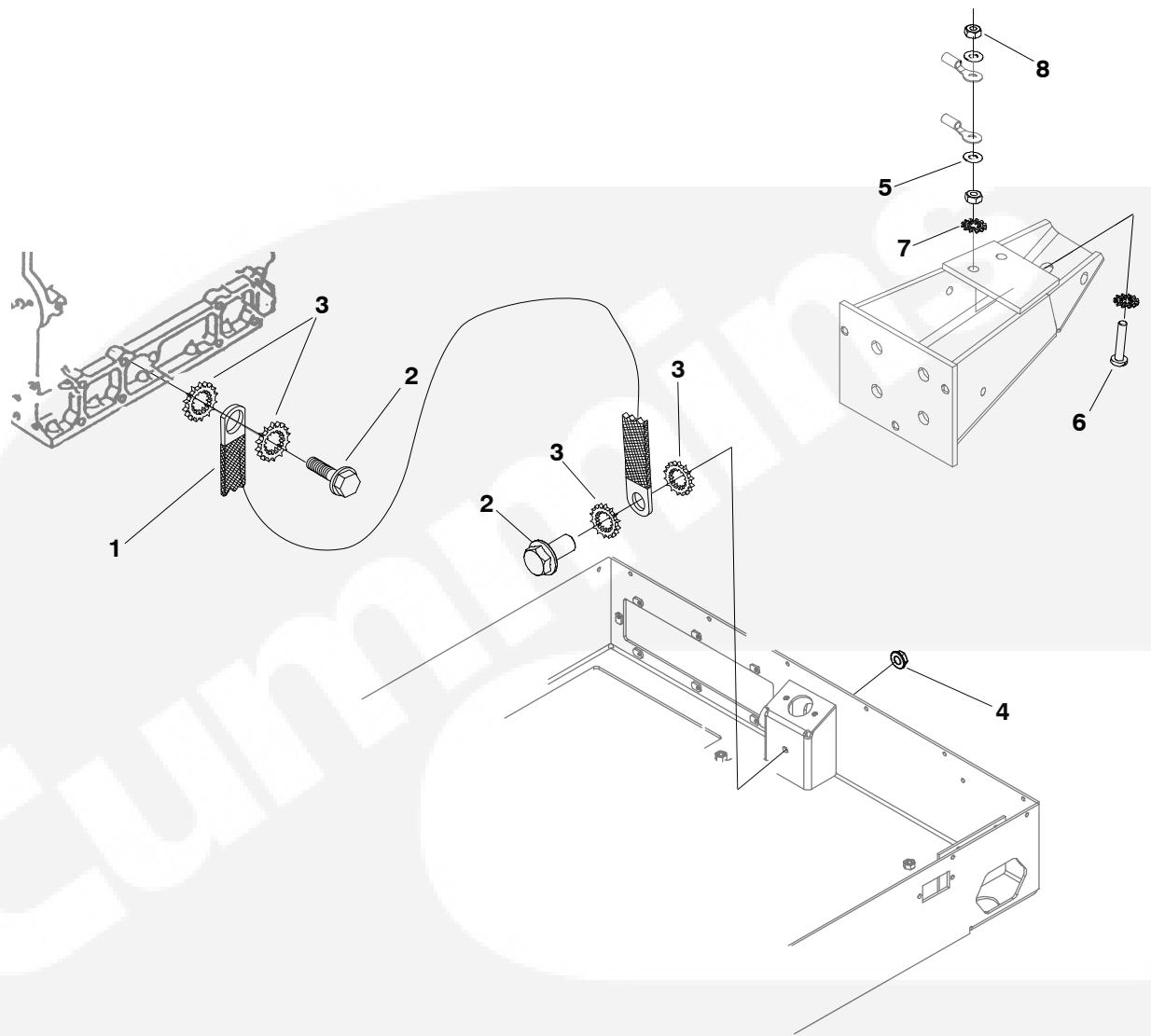
Exhaust System



Exhaust System

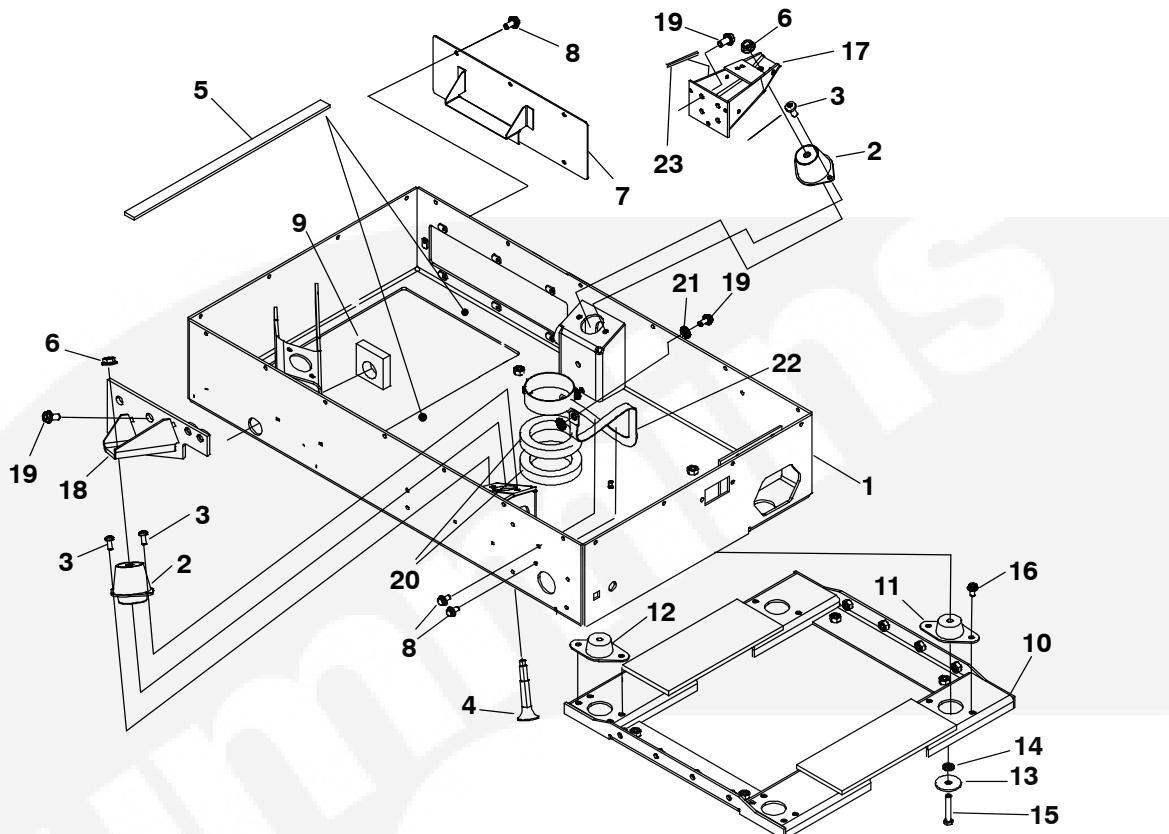
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3151	1	Muffler	12	187-1019	6	Nut
2	154-3033	1	Pipe, Flex Exhaust	13	187-1219	1	Gasket, Exhaust Manifold
3	154-2800	2	Gasket, Exhaust Manifold	14	187-1033	2	Stud, Manifold (79mm)
4	850-2008	9	Washer, Spring Lock (M8)	15	187-1013	2	Bolt (70mm)
5	860-2008	7	Nut, Hex (M8 x 1.25mm)	16	526-2100	1	Washer (M8)
6	800-2058	1	Screw, Hex Head Cap (M8 x 1.25 x 25mm)	17	800-2057	2	Screw, Hex Head (M8 x 1.25 x 20mm)
7	821-2060	1	Screw, Lock Flange (M10 x 1.5 x 20mm)	18	526-0115	2	Washer, Flat (5/16")
8	187-1194	1	Gasket, Exhaust Manifold	19	155-3194	1	Accessory, Exhaust Elbow,
9	187-1207	1	Manifold, Exhaust	20			Accessory, Exhaust Tube
10	187-1010	2	Bolt (40mm)		155-2610	1	3"
11	187-1309	4	Stud (20mm)		155-2424	1	7"

Ground System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-0090	1	Strap, Electrical	5	526-0052	4	Washer, Flat (M10)
2	821-2060	2	Screw, Hex Head Cap (M10 x 20)	6	822-0089	2	Screw, Round Head Machine (1/4-20)
3	856-0010	4	Washer, EIT Lock (3/8")	7	856-0006	4	Washer, EIT Lock (1/4")
4	870-2056	1	Nut, Hex (M10)	8	862-0001	4	Nut, Hex (1/4-20)

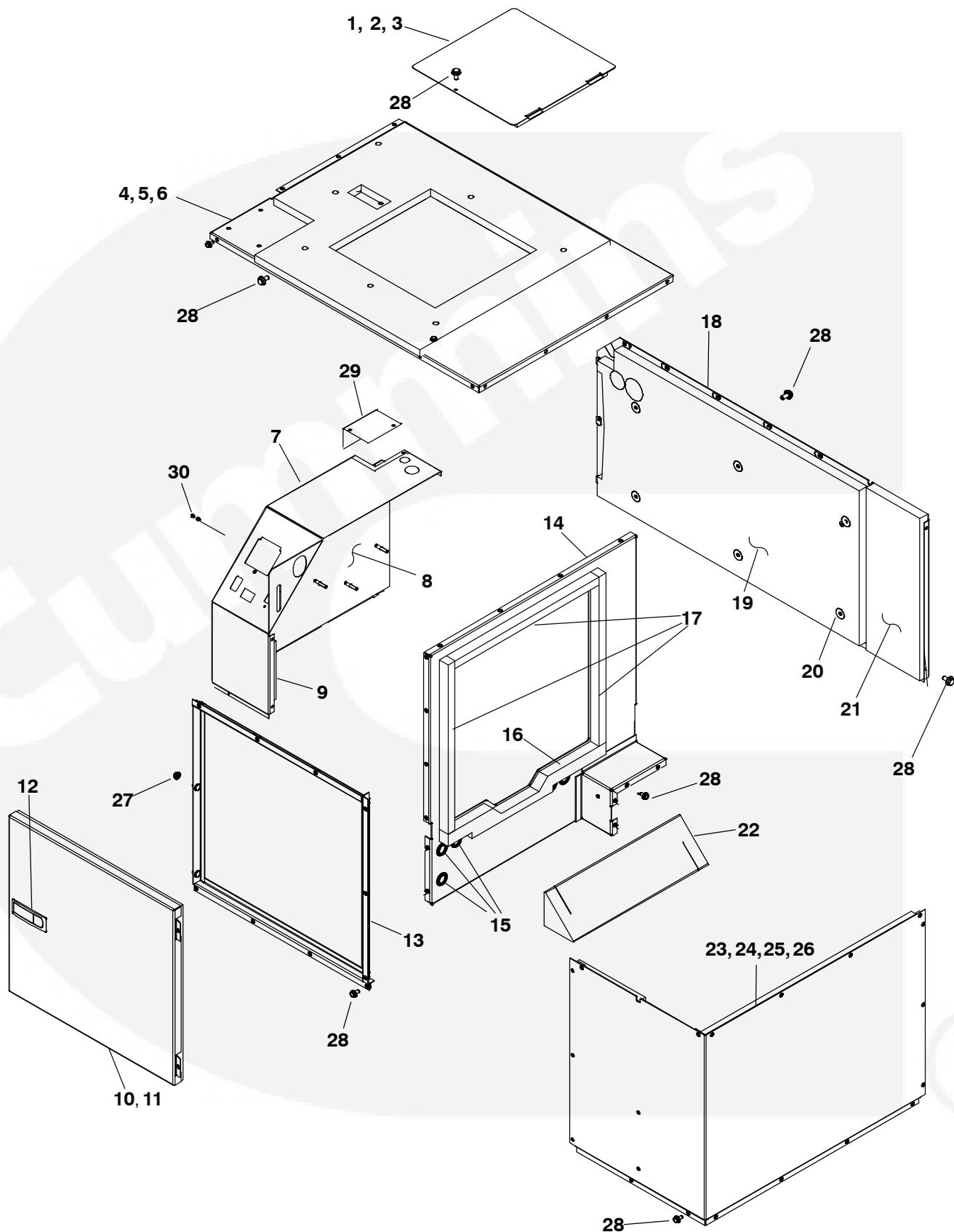
Mounting System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	402-0752	1	Kit, Isolator Mounting (Includes Parts Marked *)	11	402-0728-01	2	+*Isolator, Vibration
	542-0266	1	Kit, Isolator Mounting (Includes Parts Marked +)*	12	402-0728-02	2	+*Isolator, Vibration
1			Base, Mounting	13	526-0324	4	+*Washer, Flat (.406mm)
	403-4171-02	1	All Models Spec A-B	14	526-0174	4	+*Washer, Flat (.406mm)
	403-5192-03	1	All Models Begin Spec C	15	800-0055	4	+*Screw, Hex Head Cap (3/8-16 x 2.25")
2	402-0680-02	3	Isolator, Engine	16	821-2045	8	*Screw, Lock Head Flange (M8 x 1.25 x 16mm)
3	823-1002-04	6	Screw, Pan Head (M6 x 1 x 14mm)	17	403-4173-02	1	Bracket, Mounting
4	815-0861	3	Screw, Isolator Mount	18	403-4197-02	1	Bracket, Mounting
5			Seal, Radiator	19	821-2060	7	Screw, Lock Head Flange (M10 x 1.5 x 20mm)
	130-4724-01	3	514.6mm	20	403-3859	2	Seal, Oil Drain
	130-4724-02	2	305.2mm	21	856-0010	4	Washer, Eit Locking (3/8")
6	870-2056	4	Nut, Lock Flange (M10 x 1.5mm)	22	337-0090	1	Strap, Electrical
7	403-4213-02	1	Cover	23	508-1049-03	2	Edging
8	821-2096-02	8	Screw, Lock Flange (M6 x 1 x 12mm)				
9	403-4219	1	Seal, Radiator Drain				
10	403-4264-02	1	*Frame, Sub Mounting				

* - Parts Included in Isolator Mounting Kit (W/Frame).
 + - Parts Included in Isolator Mounting Kit (W/O Frame).
 ~ - Parts Not Needed in Model 12HDCAD.

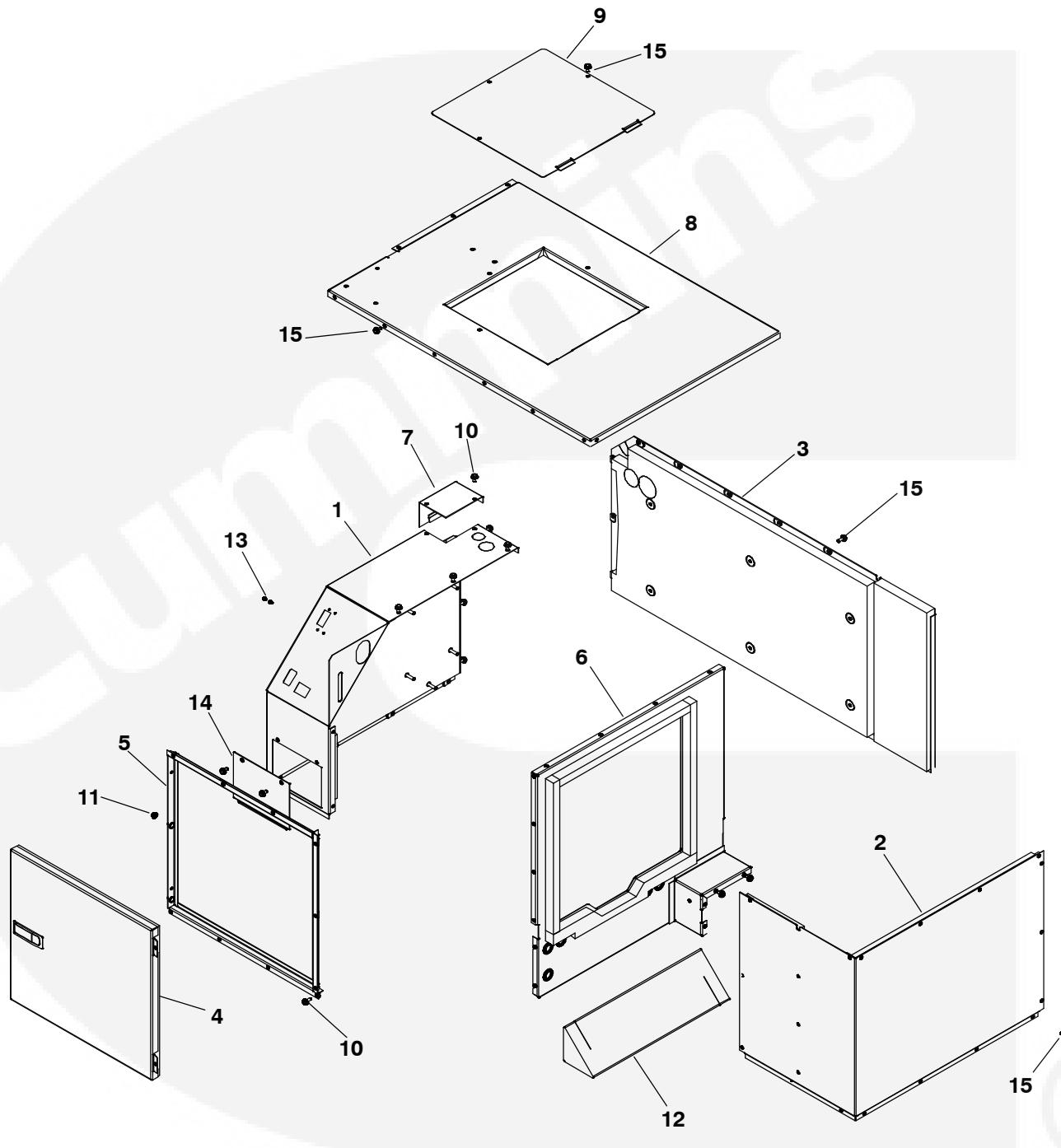
Housing (Spec A-B)



Housing (Spec A-B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assy, Access (Includes Insulation and Nuts)	15	508-1122	5	Grommet
	405-5897-01	1	10kW Spec B and 12kW Spec A	16	130-4746-01	1	Seal, Fan (460mm)
	405-5897-02	1	10kW Spec A	17	130-4746-02	3	Seal, Fan (420mm)
2	405-5882	1	Insulation, Access Cover	405-5890-01		1	Panel Assy, Rail (Includes Insulation and Nuts)
3	518-0581	2	Nut, Push-On				10kW Spec B and 12kW Spec A
4		1	Panel Assy, Top (Includes Insulation and Nuts)	405-5890-02		1	10kW Spec A
	405-5887-S1	1	10kW Spec B and 12kW Spec A	19	405-5878	1	Insulation, Rail Panel
	405-5887-02	1	10kW Spec A	20	518-0581	6	Nut, Push-On
5	405-5879	1	Insulation, Top Panel	21	405-5891	1	Insulation, Rail Panel
6	518-0581	7	Nut, Push-On	22	403-4274	1	Insulation, Housing Skid Base
7	405-5892-S1	1	Panel Assy, Cap (Includes Insulation) All Models	23			Panel Assy, Engine (Includes Insulation)
8	405-5881	1	Insulation, Cap	405-5889-01		1	10kW Spec B and 12kW Spec A
9	405-5888	1	Insulation, Cap	405-5889-02		1	10kW Spec A
10			Door Assy (Includes Insulation and Latch)	24	405-5885	1	Insulation, Panel (439 x 577mm)
	405-5895-01	1	10kW Spec B and 12kW Spec A	25	405-5880	1	Insulation, Panel (181.4 x 420.5mm)
	405-5895-02	1	10kW Spec A	26	405-6121	1	Insulation, Panel (154 x 420.5mm)
11	405-5886	1	Insulation, Access Cover	27	870-2054	2	Nut, Lock Flange (M6 x 1)
12	405-5884	1	Latch, Access Cover	28	821-2096-02	54	Screw, Lock Flange
13			Frame, Door	29	-	1	Cover, Access AC (See Housing End Cap)
	405-5932-02	1	10kW Spec B and 12kW Spec A	30	815-0549	4	Screw, Pan Head (6-32 UNC x .25)
	405-5932-03	1	10kW Spec A				
14	405-6066	1	Baffle Assy (Includes Grommets and Seals)				

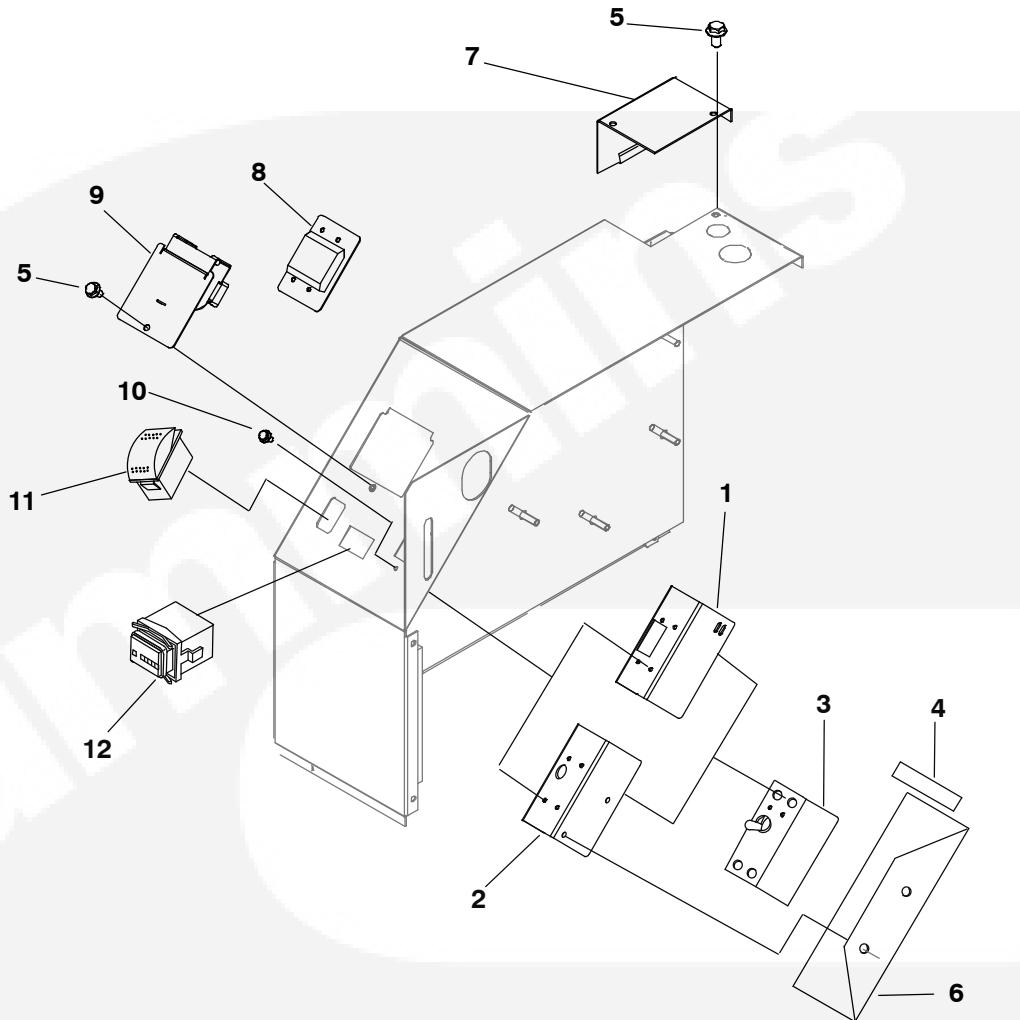
Housing (Begin Spec C)



Housing (Begin Spec C)

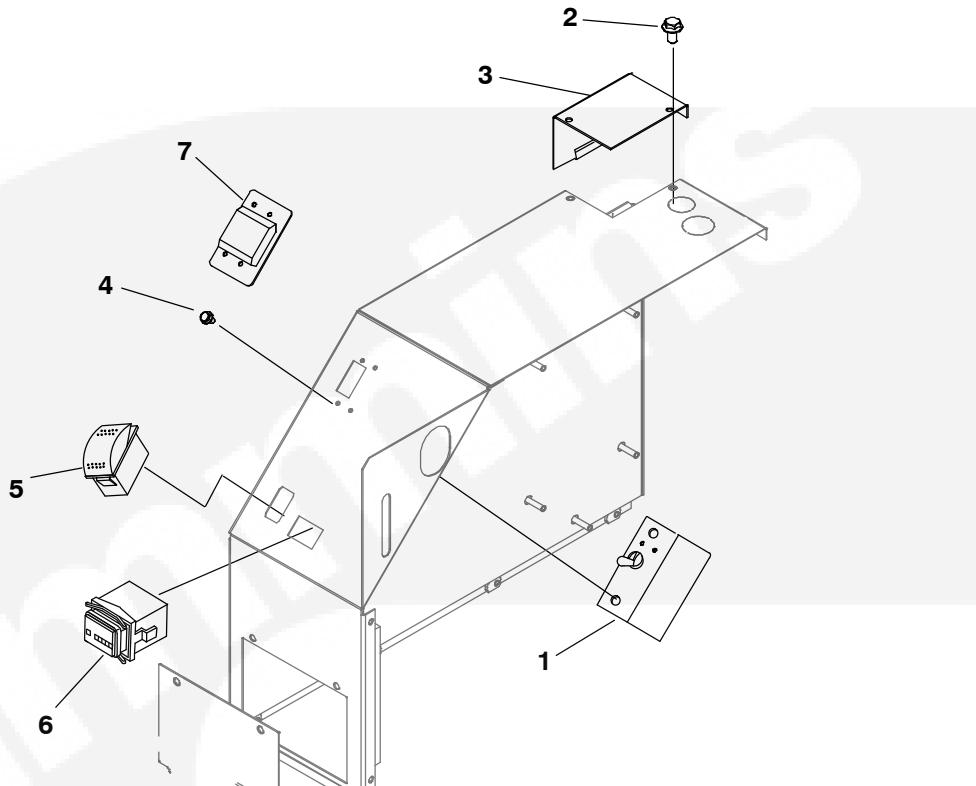
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel Assy, Cap (Includes Insulation) All Models	6	405-6066	1	Baffle Assy (Includes Grommets and Seals)
	405-7715-02	1	Panel, End Cap		405-5947-02	1	Baffle
	405-7713	1	Insulation, Cap		508-1122	5	Grommet
	405-5888-01	1	Insulation, Cap		130-4746-01	1	Seal, Fan (460mm)
2	405-5889-S1	1	Panel Assy, Engine (Includes Insulation)		130-4746-02	3	Seal, Fan (420mm)
	405-5900-02	1	Panel, Engine	7	-	1	Cover, Access AC (See Housing End Cap)
	405-5885	1	Insulation, Panel (439 x 577mm)	8	405-5887-S1	1	Panel Assy, Top (Includes Insulation and Nuts)
	405-5880	1	Insulation, Panel (181.4 x 420.5mm)		405-5879	1	Insulation, Top Panel
	405-6121	1	Insulation, Panel (154 x 420.5mm)		518-0581	7	Nut, Push-On
3	405-5890-01	1	Panel Assy, Rail (Includes Insulation and Nuts)	9	405-5897-S1	1	Cover Assy, Access (Includes Insulation and Nuts)
	405-5896-02	1	Panel, Rail		405-5894-02	1	Cover, Access Lift
	405-5878	1	Insulation, Rail Panel		405-5882	1	Insulation, Access Cover
	518-0581	6	Nut, Push-On		518-0581	2	Nut, Push-On
	405-5891	1	Insulation, Rail Panel	10	821-2096-02	54	Screw, Lock Flange
4	405-5895-01	1	Door Assy (Includes Insulation and Latch)	11	870-2054	2	Nut, Lock Flange (M6 x 1)
	405-5883-02	1	Door	12	403-4274	1	Insulation, Housing Skid Base
	405-5886	1	Insulation, Access Cover	13	815-0549	4	Screw, Pan Head (6-32 UNC x .25)
	405-5884	1	Latch, Access Cover	14	212-1308-02	1	Cover, Brush Block (Access)
5	405-5932-02	1	Frame, Door	15	821-2096-03	21	Screw, Lock Flange (M6 x 1 x 16mm)

Housing End Cap (Spec A-B)



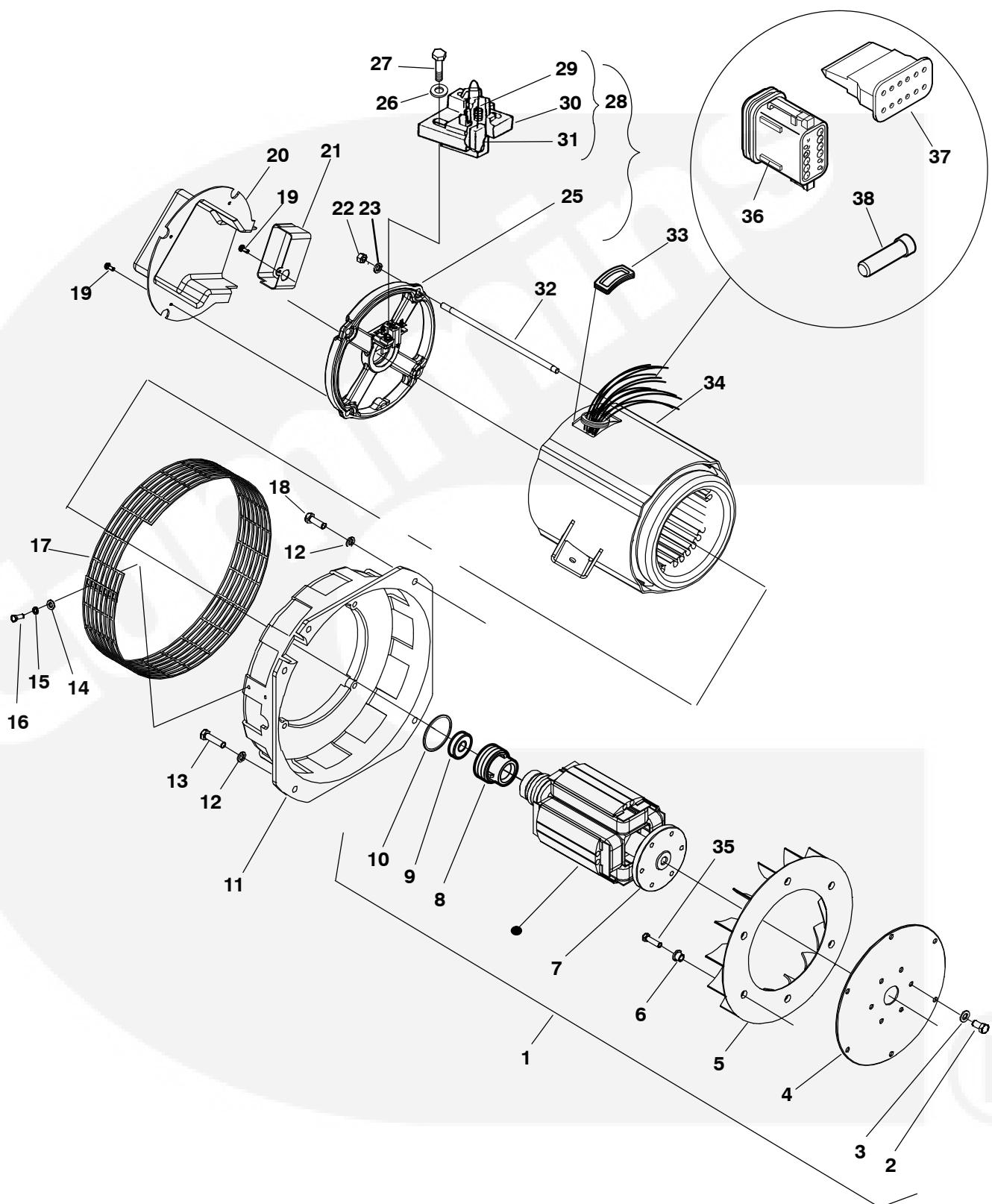
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1968-02	1	Guard, CB (10HDCAC Spec B, 12HDCAD Spec A)	7	405-5380-05	1	Cover, AC
2	320-2012-02	1	Guard, Upper CB (HDCAC Spec A)	8	320-1951-01	1	Boot, Circuit Breaker (Spec A-B)
3	320-1984-08	1	Breaker, Circuit 45A	9	405-5309-03	1	Cover, Access (Spec A-B)
	320-1984-09	1	50A	10	815-0549-01	4	Screw, Pan Head 6-32 x 1/4" (HDCAC Spec A)
4	508-1115	1	Edge, Trim (72mm) Begin Spec A		815-0550	4	6-32 x 3/8" HDCAD Begin Spec A, HDCAC Begin Spec B)
5	821-2096-02	5	Screw, Lock Flange	11	308-1038	1	Switch, Rocker
6	320-2013-02	1	Guard, Lower CB (Begin Spec A)	12	302-2002	1	Meter, Hour

Housing End Cap (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-1984-08	1	Breaker, Circuit 45A	4	815-0550	4	Screw, Pan Head (6-32 x 3/8")
	320-1984-09	1	50A	5	308-1038	1	Switch, Rocker
2	821-2096-02	4	Screw, Lock Flange	6	302-2002	1	Meter, Hour
3	405-5380-05	1	Cover, AC	7	320-1951-01	1	Boot, Circuit Breaker

**Generator
(Spec A-B)**



**Generator
(Spec A-B)**

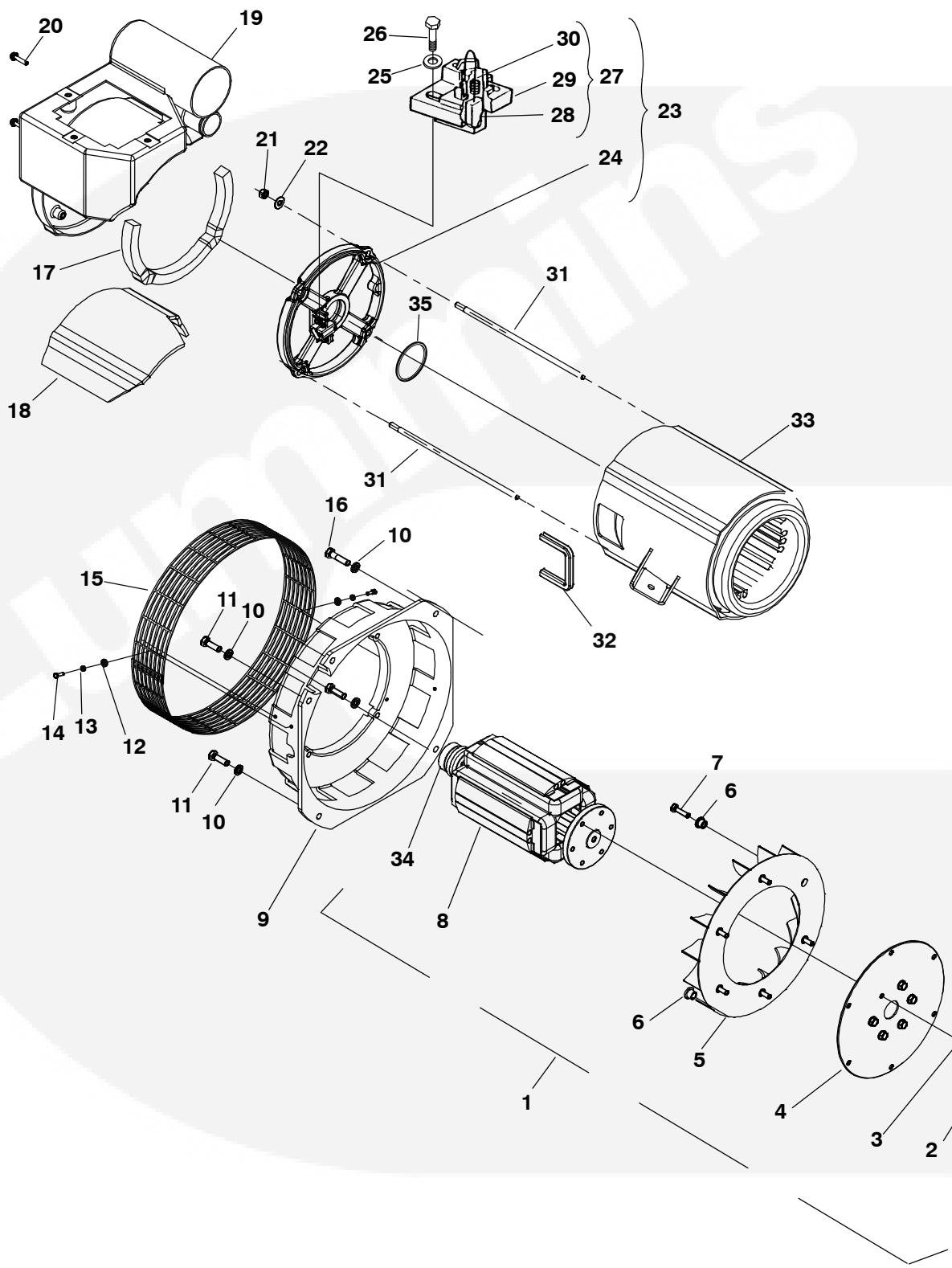
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor Assy, Generator (Includes Parts Marked *)	23	526-0029	4	Washer, Flat (3/8")
	201-3506-03	1	HDCAC Spec A-B	24	211-0485	1	Endbell Assy (Includes Parts Marked #)
	201-3506-S3	1	HDCAD Spec A-B	25	211-0447	1	#Endbell
2	800-2056	6	*Screw, Hex Head Cap (M8 x 1.25 x 16mm)	26	526-0399-56	2	#Washer, Flat (M5)
3	526-2100	6	*Washer, Flat (M8)	27	800-0309-89	2	#Screw, Hex Head Machine (M5 x 0.8 x 16)
4	232-3915	1	*Disc, Generator Drive	28	212-1285-S0	1	#Block Assy, Generator Brush (Includes Parts Marked >)
5	205-0220	1	*Fan, Generator	29	212-1276-03	2	>Spring, Generator Brush
6	232-3296	6	*Spacer, Fan	30	212-1286-S0	1	>Block, Brush
7	232-3753	1	*Hub, Rotor Drive	31	214-0103	2	>Brush, Generator
8	204-0134	1	*Ring, Collector	32	520-1000-03	4	Stud (284mm)
9	510-0185	1	*Bearing, Ball	33	508-1049-02	1	Edging
10	509-0420	1	O'Ring	34			Stator, Generator
11	231-1020	1	Adapter, Generator		220-4543-05	1	HDCAC Spec A
12	850-2010	5	Washer, Lock		220-4632-04	1	HDCAC Spec B
13	800-2087	4	Screw, Hex Head Cap (M10 x 30mm)		220-4543-04	1	HDCAD Spec A
14	526-2080	3	Washer, Flat (M6)	35	800-2515	6	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
15	850-2005	3	Washer, Lock	36	323-1541	1	Plug (8 Pin)
16	800-2006	3	Screw, Hex Head Cap (M5 x 14mm)	37	323-1543	1	Plug, Wedge
17	232-3755-02	1	Guard, Fan	38	323-1591	1	Plug, Seal*
18	800-2089	1	Screw, Hex Head Cap (M10 x 1.5 x 40mm)				
19	815-0810	4	Screw, Pan Head				
20	211-0488	1	Intake, Endbell				
21	211-0489-02	1	Duct, Inlet				
22	862-0003	4	Nut, Hex (3/8-16)				

* - Parts Included in Generator Rotor Assy.

- Parts Included in Endbell Assy.

> - Parts Included in Brush Block Assy.

**Generator
(Begin Spec C)**



**Generator
(Begin Spec C)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1			Rotor Assy, Gen (Includes Parts Marked *)	21	862-0003	4	Nut, Hex (3/8-16)	
	201-3549-03	1	142mm+	22	526-0029	4	Washer, Flat (3/8")	
	201-3549-04		178mm+	23	211-0485-01	1	Endbell Assy (Includes Parts Marked #)	
2	800-2056	6	*Screw, Hex Head Cap (M8 x 1.25 x 16mm)	24	211-0447-01	1	#End, Bell Generator	
3	526-2100	6	*Washer, Flat (M8)	25	526-0399-56	2	#Washer, Flat (M5)	
4	232-3915	1	*Disc, Generator Drive	26	800-0309-89	2	#Screw, Hex Head Machine (M5 x 0.8 x 16)	
5	205-0220	1	*Fan, Generator	27	212-1285-S0	1	#Block Assy, Generator Brush (Includes Parts Marked >)	
6	232-3296	6	*Spacer, Fan	28	212-1286-S0	1	>Block, Brush	
7	800-2515	6	Screw, Hex Head Cap (M8 x 1.25 x 30mm)	29	214-0103	2	>Brush, Generator	
8	201-3507-04	1	*Rotor Assy, Wound	30	212-1276-03	2	>Spring, Generator Brush	
9	231-1020	1	Adapter, Generator	31	520-1000-04	4	Stud	
10	850-2010	5	Washer, Lock (M10)	32	508-1049-04	1	Edging	
11	800-2087	4	Screw, Hex Head Cap (M10 x 30mm)	33	220-4647-03	1	Stator, Generator HDC Spec C	
12	526-2080	3	Washer, Flat (M6)		220-4647-01	1	Stator (142mm)+	
13	850-2005	3	Washer, Lock (M5)		34	510-0185	1	Stator (178mm)+
14	800-2006	3	Screw, Hex Head Cap (M5 x 14mm)		35	509-0420	1	*Bearing, Ball
15	232-3755-02	1	Guard, Fan				O'Ring	
16	800-2089	1	Screw, Hex Head Cap (M10 x 1.5 x 40mm)					
17	405-7774	1	Insulation Cover (Endbell)					
18	405-7773	1	Insulation Cover (Generator)					
19	234-1020	1	Cover, Generator Intake					
20	821-2096-06	4	Screw, Locking Flange (M6 x 30mm)					

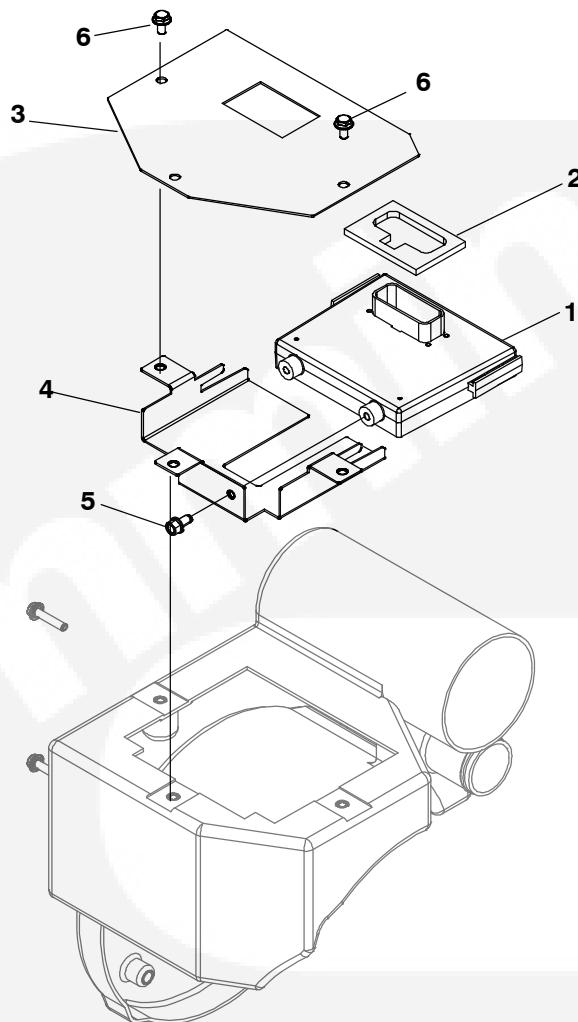
* – Parts Included in Generator Rotor Assy.

– Parts Included in Endbell Assy.

> – Parts Included in Generator Brush Block Assy.

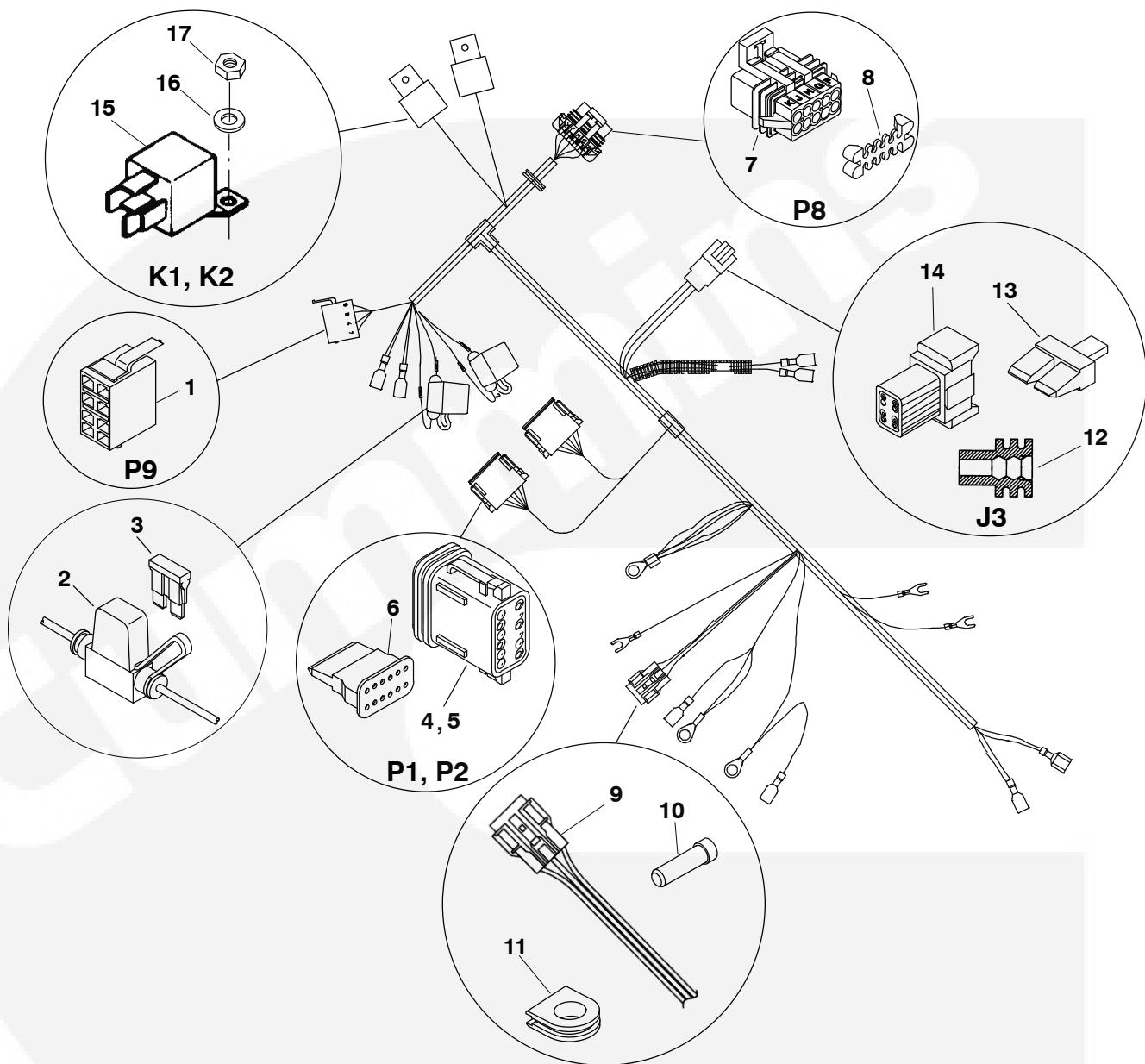
+ – Measure length of stator/rotor.

**Control
(Begin Spec C)**



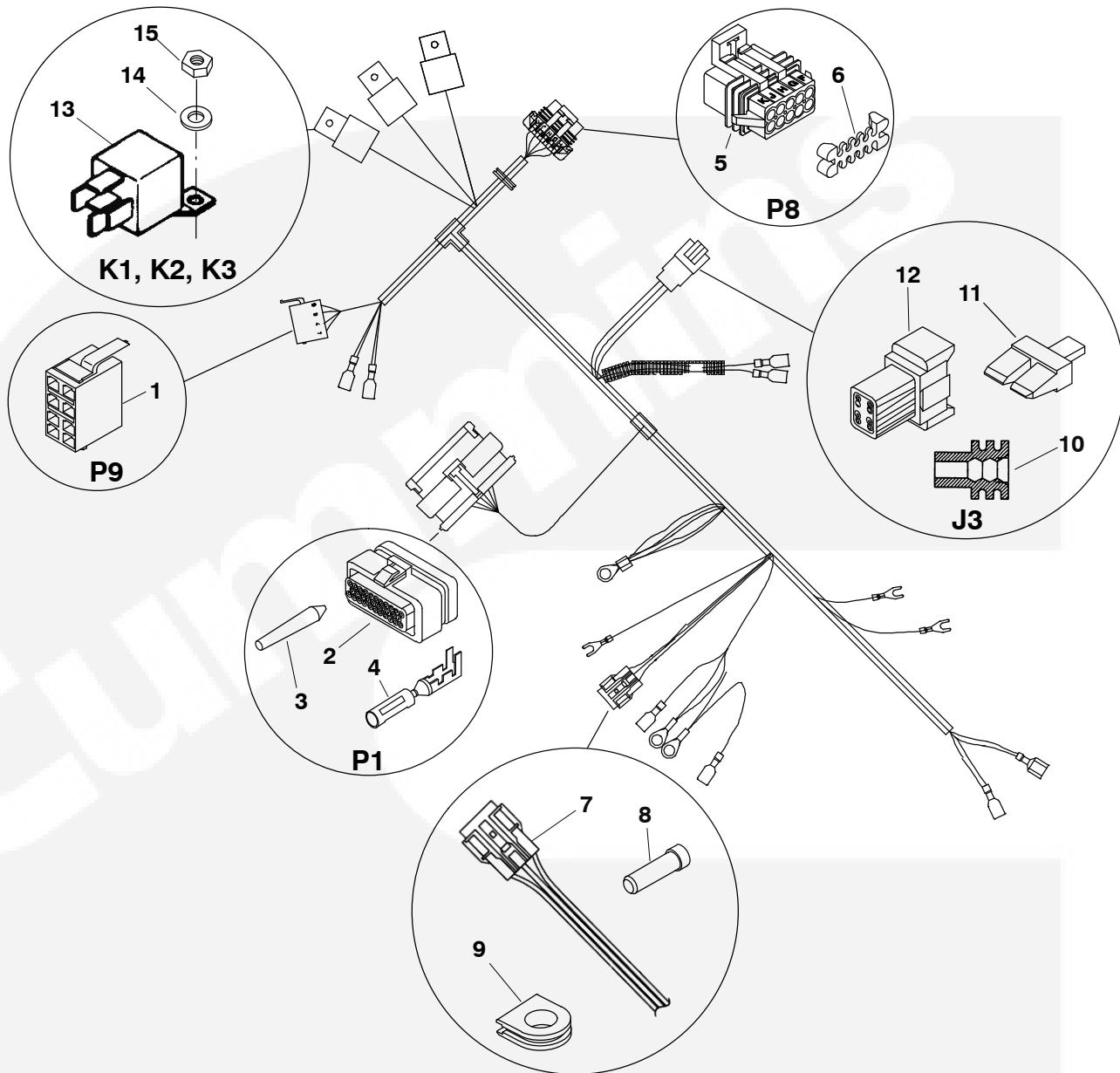
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-6001	1	PCB (Control)	4	319-5199-03	1	Bracket, Control
2	405-7808	1	Insulation, Cover Plug	5	815-0943-02	1	Screw, Hex Thread Form
3	319-5200-02	1	Cover, Control (Generator Intake)	6	821-2096-02	3	Screw, Locking Flange (M6 x 12mm)

Engine Harness (Spec A-B)



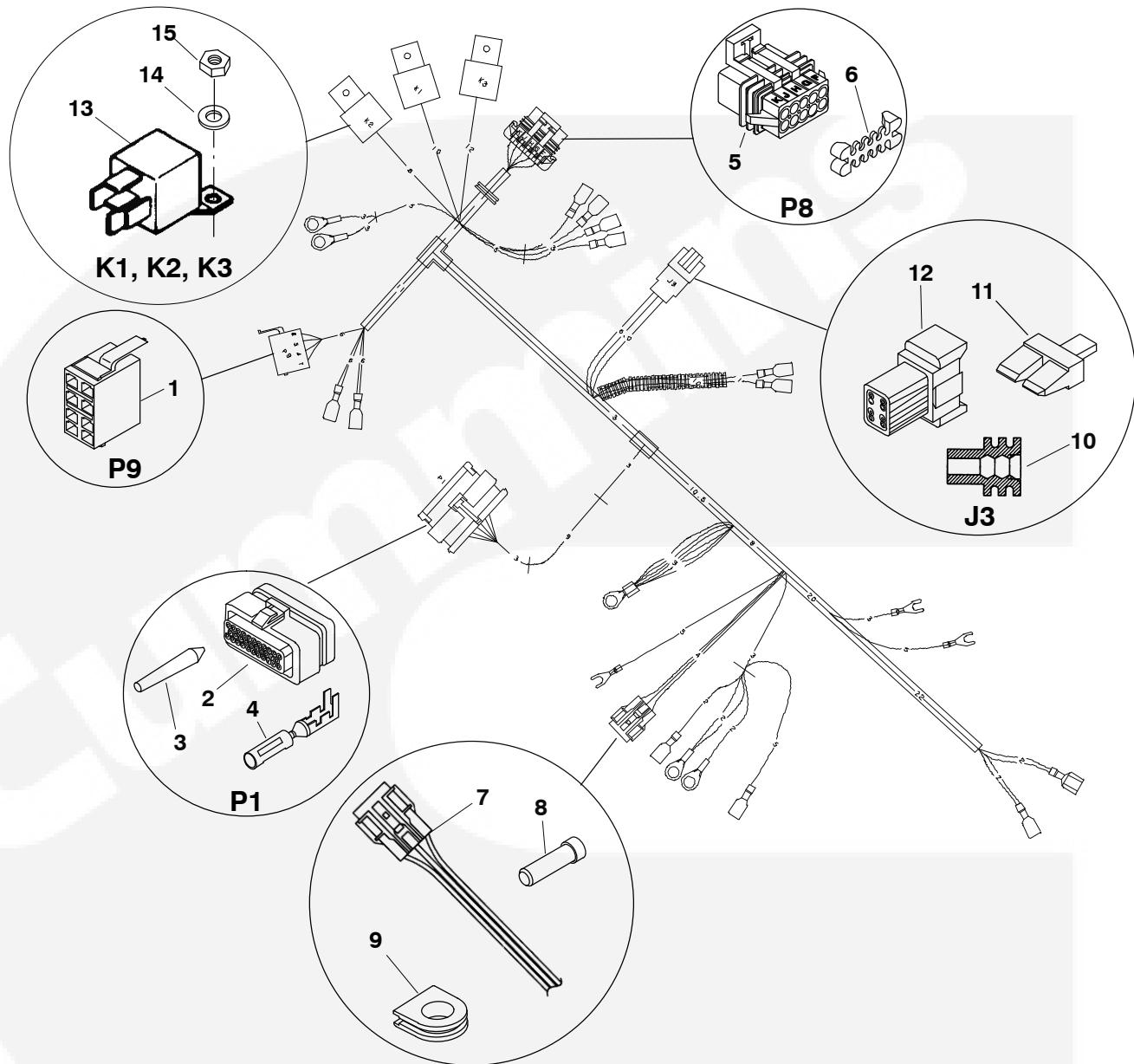
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3575	1	Harness, Engine	10	323-1591	2	Plug, Cavity
2	308-1019	1	Connector, Switch (P9)	11	508-1105	1	Grommet
3	321-0322	2	Holder, Fuse (F1)	12	323-1708	AR	Seal, Cable
4	321-0321-07	1	Fuse (15A, F1 and F2)	13	323-1544	1	Wedge (J3)
5	323-1582	1	Connector, Plug (12 Pin) (P1)	14	323-1542	1	Connector (8 Pin) (J3)
6	323-1582-02	1	Connector, Plug (12 Pin) (P2)	15	307-1886	2	Relay (K1 and K2)
7	323-1583	2	Wedge, Plug (12 Pin) (P1, P2)	16	526-0003	2	Washer
8	323-1711	1	Connector, Plug (10 Pin) (P8)	17	860-2005	2	Nut, Lock Flange (M4 x 1)
9	323-1719	1	Lock, Housing				
10	323-1773	AR	Connector, Alt				

Engine Harness (Spec C)



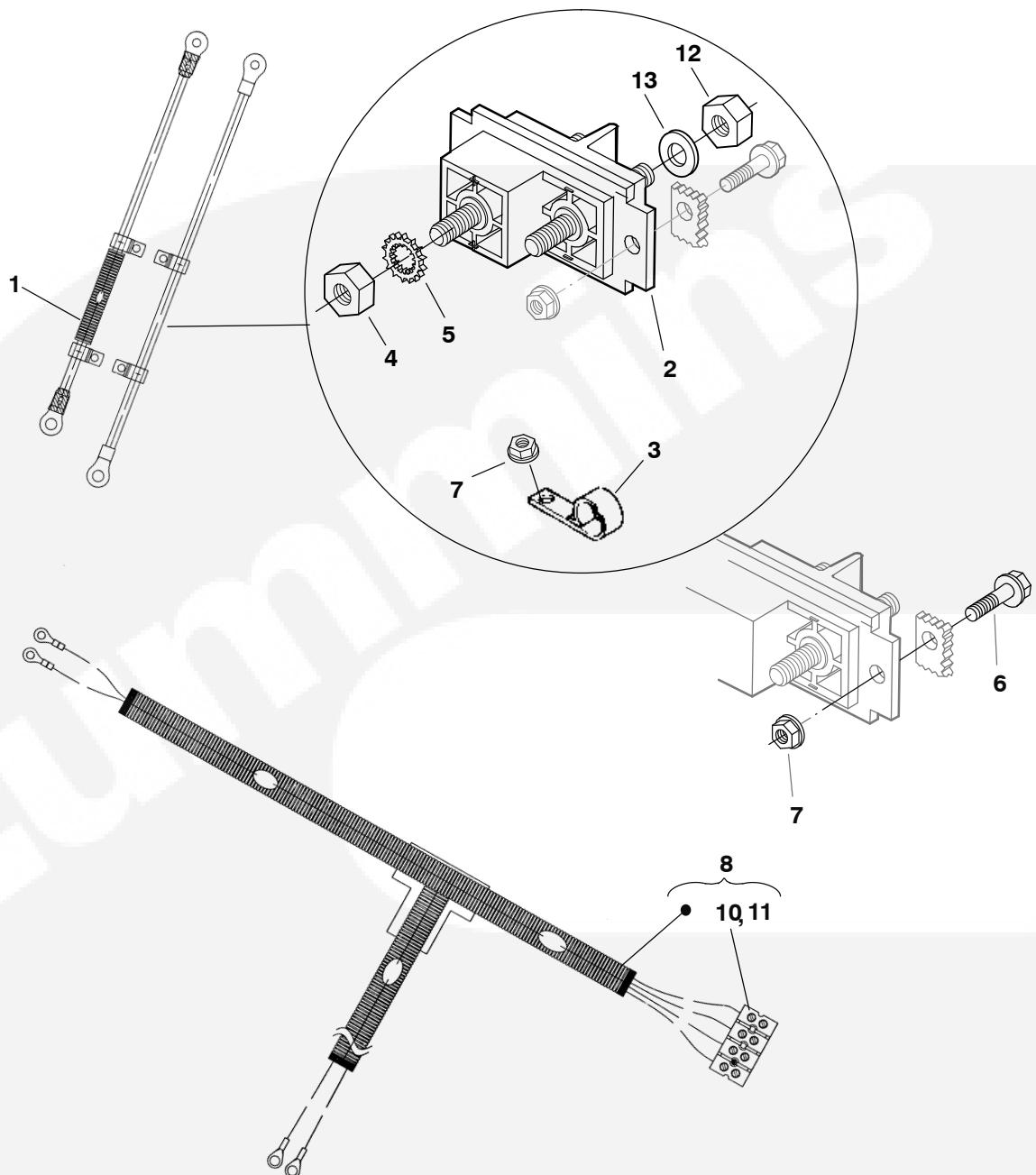
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
338-4383	1	1	Harness, Engine	9	508-1105	1	Grommet
1 308-1019	1	1	Connector, Switch (P9)	10	323-1708	AR	Seal, Cable
2 322-1819-01	1	1	Connector, Plug (35 Pin) (P1)	11	323-1544	1	Wedge (J3)
3 323-1615	5	5	Plug, Cavity (P1)	12	323-1542	1	Connector (8 Pin) (J3)
4 323-1614-01	AR	1	Socket, Terminal (P1)	13	307-1886	3	Relay (K1 and K2)
5 323-1711	1	1	Connector, Plug (10Pin) (P8)	14	526-0003	3	Washer
6 323-1719	1	1	Lock, Housing	15	860-2005	3	Nut, Lock Flange (M4 x 1)
7 323-1773	AR	1	Connector, Alt				
8 323-1591	2	2	Plug, Cavity				

Engine Harness (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
338-4503	1	1	Harness, Engine	8	323-1591	2	Plug, Cavity
1 308-1019	1	1	Connector, Switch (P9)	9	508-1105	1	Grommet
2 323-1819-01	1	1	Connector, Plug (35 Pin) (P1)	10	323-1708	AR	Seal, Cable
3 323-1615	5	5	Plug, Cavity (P1)	11	323-1544	1	Wedge (J3)
4 323-1614-01	AR	1	Socket, Terminal (P1)	12	323-1542	1	Connector (8 Pin) (J3)
5 323-1711	1	1	Connector, Plug (10Pin) (P8)	13	307-1886	3	Relay (K1 and K2)
6 323-1719	1	1	Lock, Housing	14	526-0003	3	Washer
7 323-1773	AR	1	Connector, Alt	15	860-2005	3	Nut, Lock Flange (M4 x 1)

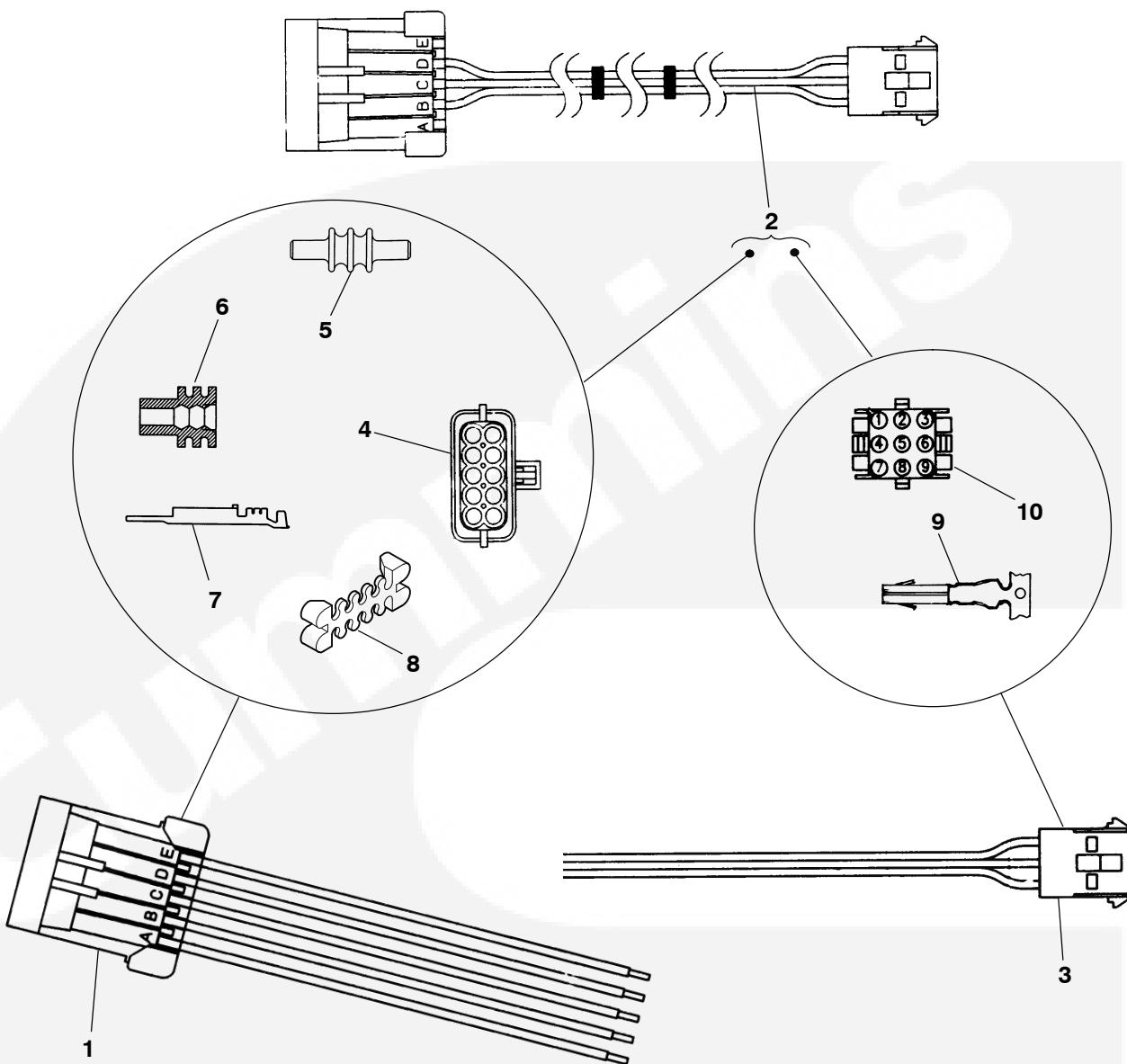
Battery/AC Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3577	1	Harness, Wiring (Includes Parts Marked *)	9	338-4384	1	Harness, AC (Includes AC Terminal Block)(Begin Spec C)
2	332-3408	1	*Block, Terminal (TB1)	10	332-3531-03	1	Block, AC Terminal (TB2)
3	332-1554	4	*Clamp, Insulated Loop	11	812-0070	2	Screw, Round Head Machine (6-32 x 1-1/4")
4	862-0015	2	*Nut, Hex (5/16-18)	12	871-0025	2	Nut, Hex Brass (5/16-18)
5	856-0008	2	*Washer, EIT Lock (5/16")	13	526-0054	2	Washer, Flat (5/16")
6	821-2096-03	2	Screw, Lock Flange (M6 x 1 x 16mm)				
7	870-2054	5	Nut, Lock Flange (M6 x 1)				
8	338-3576	1	Harness, AC (Includes AC Terminal Block)(Spec A-B)				

* – Parts Included in Battery Wiring Harness.

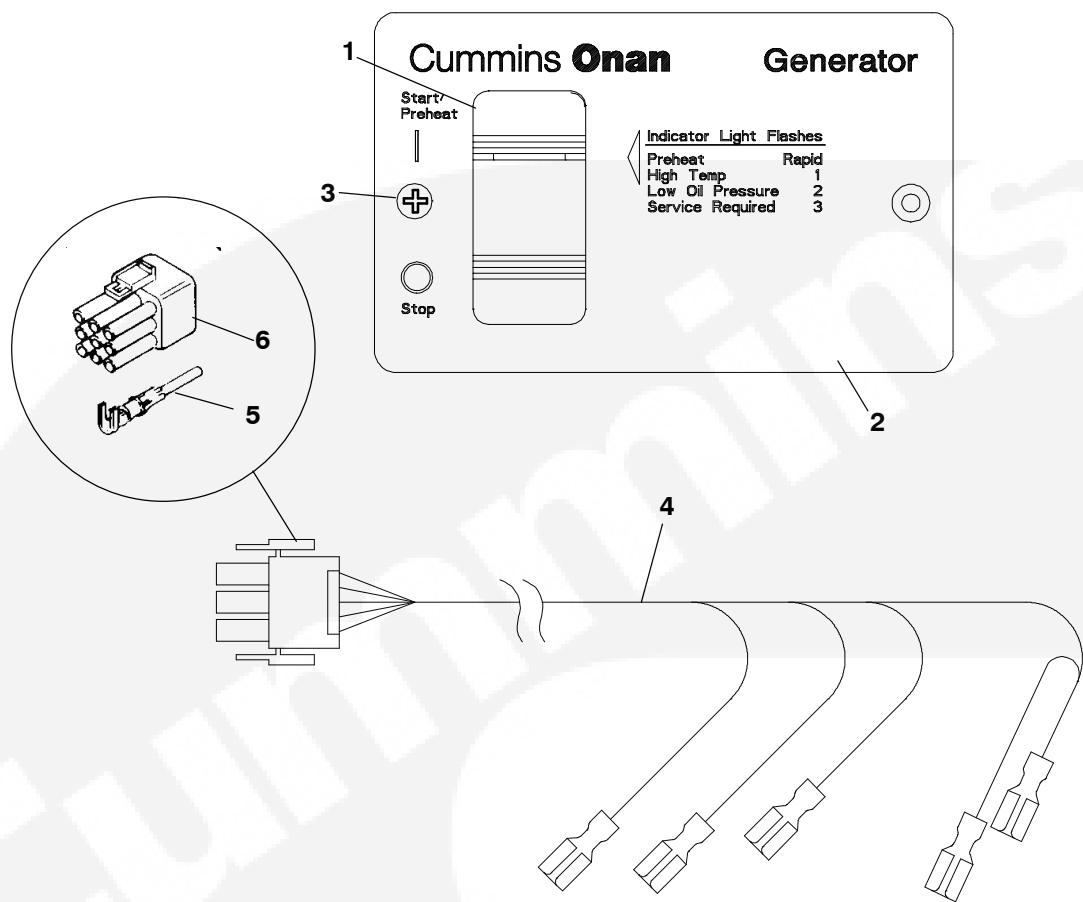
Remote Harnesses



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4947	1	Harness, Remote (Includes Parts Marked *)	6	323-1708	8	+*Seal, Cable
2			Harness, Remote Panel (Includes Parts Marked +)	7	323-1707	8	+*Pin, Contact
	338-3490-01	1	10'	8	323-1719	1	+*Housing, Lock
	338-3490-02	1	30'	9	323-1200	AR	##Socket, Contact
3	338-3573	1	Harness, Adapter (Includes Parts Marked #)	10	323-1325	1	##Cap, Connector
4	323-1710	1	+*Connector, Receptacle				
5	323-1712	2	+*Plug, Cavity				

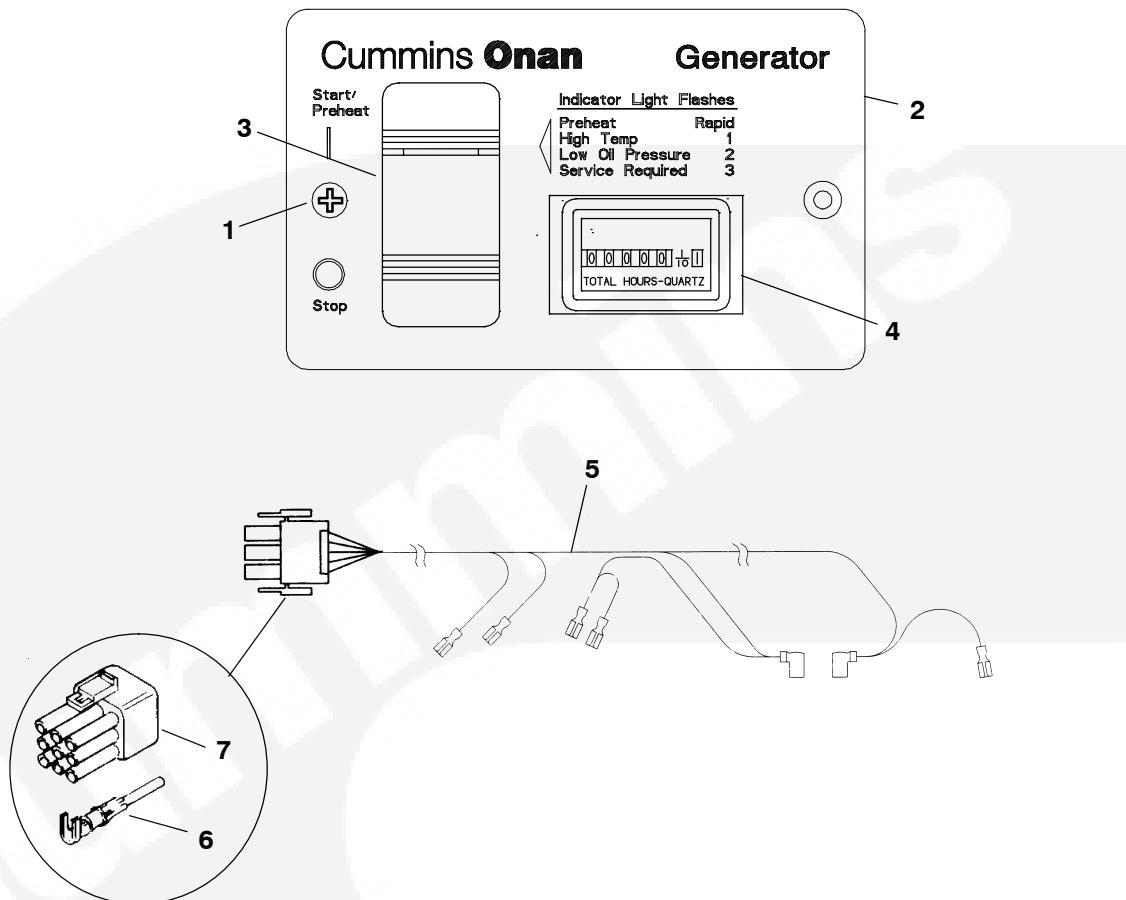
* - Parts Included in Remote Harness (300-4947).
 + - Parts Included in Remote Panel Harness (338-3490).
 # - Parts Included in Adapter Harness (338-3573).

Remote Control Panel



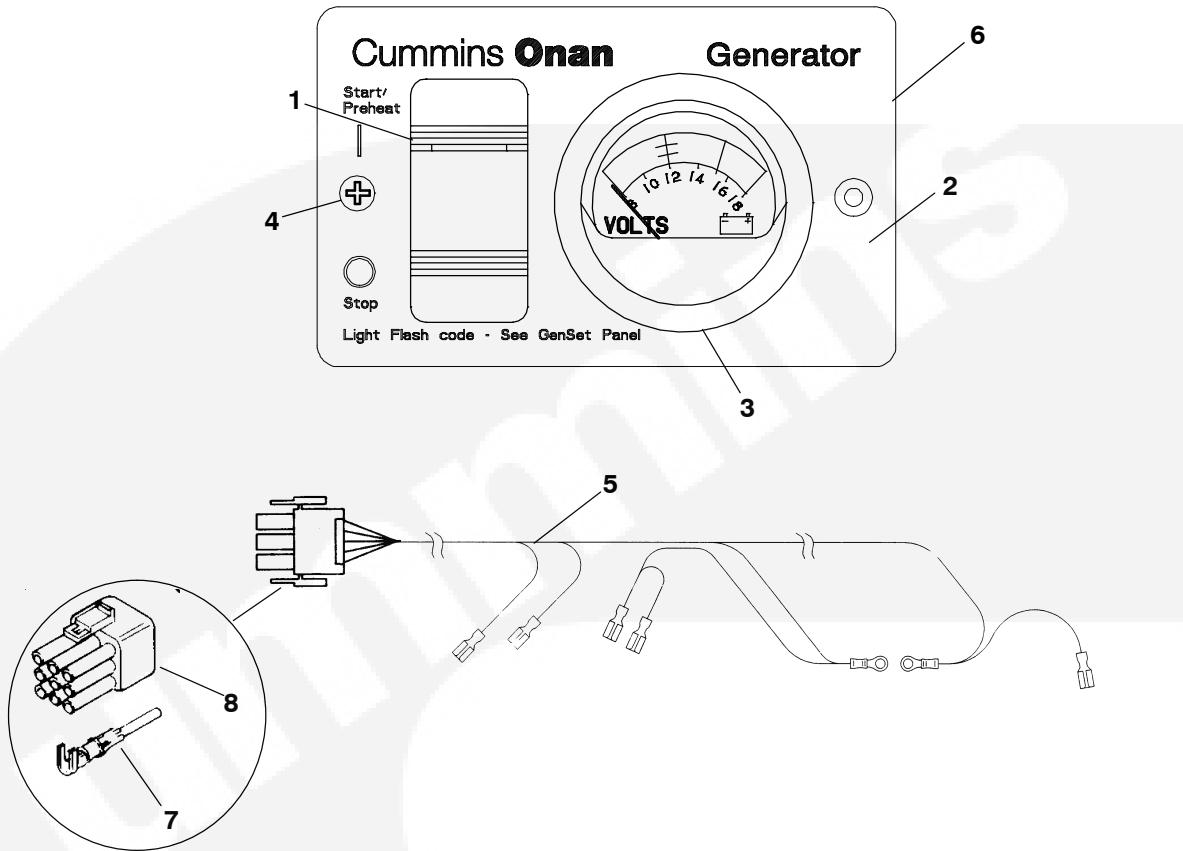
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4942	1	Kit, Remote Panel		338-3812	1	Harness, Remote Panel
1	308-1062	1	Switch, Rocker (S11)		323-1199	4	Pin, Contact
2	319-6988-01	1	Panel, Remote (Includes Label)		323-1291	1	Plug (9 Pin)
3	815-0910	2	Screw, Wood (#6 x 1)				

Remote Switch/Hourmeter Panel



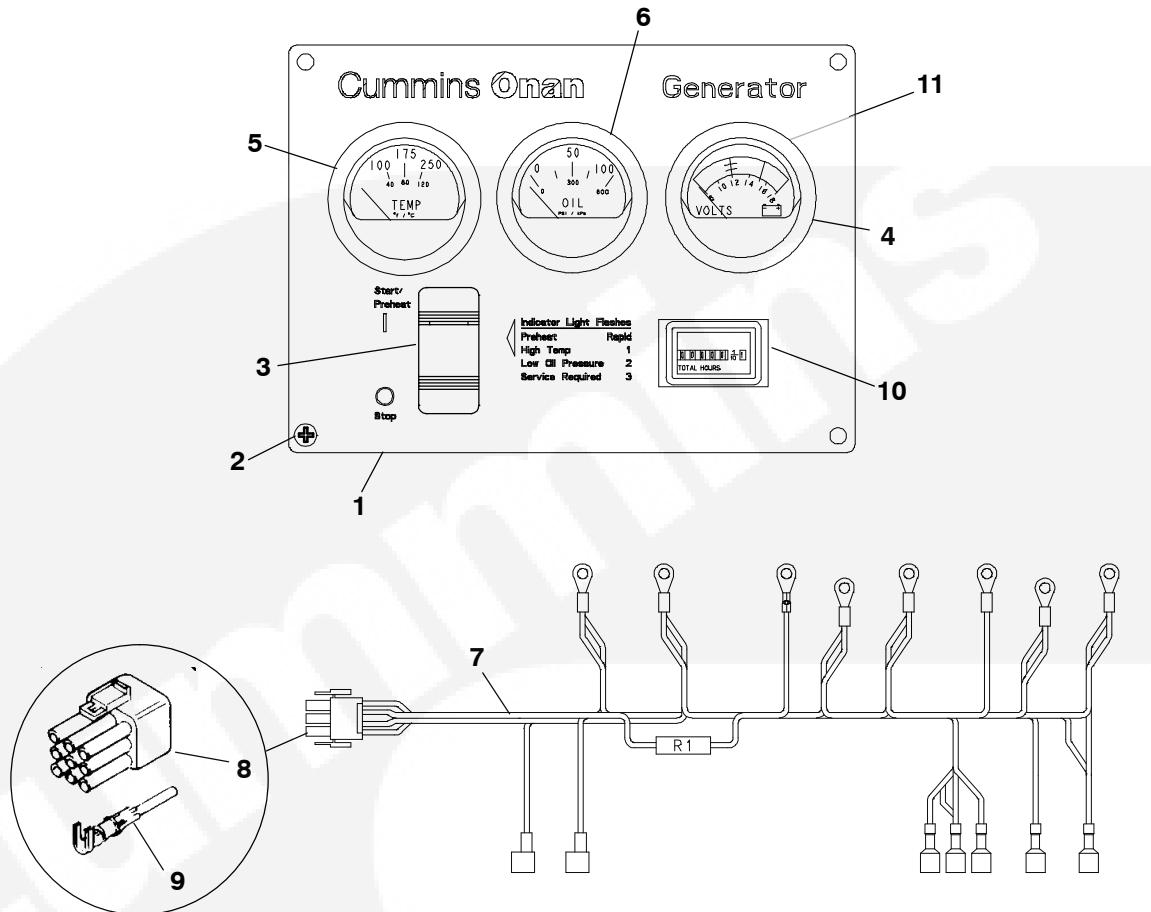
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4943	1	Kit, Switch/Hourmeter Remote Panel	4	302-2002	1	Hourmeter
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	5	338-3475	1	Harness, Remote Panel (Includes Pins and Plug)
2	319-6988-02	1	Panel, Printed	6	323-1199	4	Pin, Contact
3	308-1062	1	Switch, Rocker	7	323-1291	1	Plug (9 Pin)

Remote Switch/Voltmeter Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4944	1	Kit, Remote Switch/Voltmeter Panel	6	526-0409	2	Hardware, Meter Mounting
1	308-1062	1	Switch, Rocker	526-0049	4	Washer, Nylon (3/16")	
2	319-6989-03	1	Panel, Printed	871-0010	4	Washer, Flat (#10)	
3	302-1641	1	Meter, Voltage				Nut, Hex Brass Machine (#10-32)
4	815-0910	2	Screw, Wood Mounting (#6 x 1)	850-0030	2		Washer, Lock (#10)
5	338-3509	1	Harness, Remote Panel (Includes Pins and Plug)	7	323-1199	4	Pin, Contact
				8	323-1291	1	Plug (9 Pin)

Remote Gauge Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5027	1	Kit, Remote Gauge Panel	8	323-1291	1	Plug (9 Pin)
2	319-6993	1	Panel, w /Decal	9	323-1199	8	Pin, Contact
3	808-0023	4	Screw, Pan Head Sheet Metal Mounting (#8 x 1/2")	10	302-2002	1	Hourmeter
4	308-1062	1	Switch, Rocker (SPDT)	11	326-0409	8	Hardware, Meter Mounting
5	302-1641	1	Meter, Voltage		526-0049	16	Washer, Nylon (3/16")
6	193-0351	1	Gauge, Water Temperature		871-0010	16	Washer, Flat (#10)
7	193-0352	1	Gauge, Oil Pressure		850-0030	8	Nut, Hex Brass Machine (#10-32)
8	338-3637	1	Harness, Remote Panel (Includes Plug and Pins)				Washer, Lock (#10)

Labels, Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Label, Control Panel				10kW HDCAC
98-7399-01	1	45A, 2 Pole		98-7924-02	2		Label , Model Ident (CMQD 10000)
98-7399-02	1	50A, 2 Pole		98-8192-01	1		Label , Information (Breaker 45 AMP)
98-7476	1	Label, Model Ident		98-7906	1		Label , Unit Ident (Commercial Mobile Power)
98-8190	1	Label, Packaged (Includes Parts Marked *) (Spec A-B)		98-8191	1		Label , Information (Control Panel)
98-7462	1	*Label, Service Information					12kW HDCAD
98-7464	1	+*Label, Coolant Drain		98-7924-03	2		Label , Model Ident (CMQD 12000)
98-7128	2	+*Label, Warning Hazardous Voltage/Rotational Parts		98-8192-02	1		Label , Information (Breaker 50 AMP)
98-7498-01	1	+*Label, Warning Hazardous Voltage (Terminal ID)		98-7906	1		Label , Unit Ident (Commercial Mobile Power)
98-7463	1	+*Label, Fuel Attachment		98-8191	1		Label , Information (Control Panel)
98-6877	1	+*Label, Hot / Cold					
98-7497-01	1	+*Label, Warning Install					
98-7130	1	+*Label, Warning Heat					
98-6476	1	+*Label , Ground					
98-7498-02	1	+*Label, Warning Hazardous Voltage (Terminal ID)					
98-7515-01	1	Label, Warning Voltage (Spec A-B)					
98-7916	1	Label, Emissions					

* – Parts Included in Label Package Spec A-B.

+ – Parts Included in Label Package Begin Spec C.

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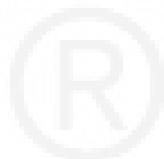
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A large, semi-transparent watermark of the Cummins logo is positioned at the top of the page. The word "Cummins" is written in a bold, sans-serif font, with each letter slightly overlapping the next to form a curve. The logo is set against a light gray circular background.

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